Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Massachusetts—Lawrence Bridge Comn., office J. J. Donovan, Room 507-8, Bay State Bldg., Lawrence, receiving bids Dec. 20, about 1,500 lin.ft. double-track on Central Bridge over Merrimack River. B. H. Davis, Whitehall Bldg., 17 Battery Pl., New York, Consult. Engr. (See adv.)

New Jersey—Bd. Freeholders Gloucester County, Woodbury, interested in electric railway from Woodbury to Paulsboro and Pennsgrove. Address County Clk., Woodbury.

New Jersey—Pennsylvania R.R. plans 2 additional tracks on New York & Philadelphia Div., to form 6-track system. Plans include 6-track bridges and will eliminate grade crossings between Morrisville and Philadelphia. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pennsylvania—East Broad Top Railroad and Navigation Co. making surveys line from Alvin to new mine near Wells Tannery, about 5 mi. E. C. Hall, Orbisonia, Gen. Mgr.

Pennsylvania—Johnstown Traction Co. plans line from Johnstown to New Florence. About $300,000. E. M. duPont, Johnstown, Gen. Mgr.

Pennsylvania—Pennsylvania R.R. plans line from Tamaqua to Hazelton, about 40 mi. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Pennsylvania—Pub. Ser. Comn., Harrisburg, plans to operate trackless trolley line on highway from Dover to Rossville.

Virginia—Virginian Railway Co. plans additional yard tracks at Roanoke, also other improvements. H. Fernstrom, Norfolk, Ch. Engr.

West Virginia—Chesapeake & Ohio Ry. plans extensive track improvements at West Huntington, including side tracks, switches, etc. F. I. Cabell, Richmond, Ch. Engr.

South Carolina—Columbia Railway and Navigation Co. making surveys line from Columbia via Lexington and Saluda to Greenwood, about 70 mi. F. H. Haskell, Columbia, Engr.

Georgia—Americus, Hawkinsville & Eastern Ry. plans extension to Americus, about 12 mi. Address J. S. Morton, Gen. Mgr., Georgia Lumber Co., Byromville.

Alabama—Vida Lumber Co. will build narrow-gage railroad in Clanton.

Louisiana—Gulf, Sabine & Red River Railway and Navigation Co. plans line from Niblettts Bluff, La., to Sabine River opposite Orange, Tex., about 9 mi.; also from Francis to Leesville, La., about 16 mi. Lutcher & Moore Lumber Co., Orange, owners.

Ohio—Cleveland Railway Co. granted franchise by Council to extend car tracks on Hough Ave to East 105th St., Cleveland. G. L. Radcliffe, Leader-News Bldg., Cleveland, Ch. Engr.

Ohio—Ohio Electric Ry. plans to extend tracks on East Grand Ave. to Cincinnati, Hamilton & Dayton Ry., Lima. A. Benham, Ohio Interurban Bldg., Springfield, Gen. Mgr.

Ohio—Recording and Computing Machines Co., Dayton, plans electric railway from center of city to factory. W. I. Ohmer, Pres.

Illinois—Illinois Central R.R., Chicago, plans to electrify all suburban tracks within next 5 years. A. S. Baldwin, 135 East 11th Pl., Chicago, Ch. Engr.

Nebraska—Omaha, Lincoln & Beatrice Interurban Co., Lincoln, to let contracts line from Lincoln to Omaha in spring. J. M. Bramlette, Lincoln, Gen. Mgr. Noted Oct. 19.

North Dakota—Chicago, Milwaukee & St. Paul Ry. plans line from New England to Amidon, about 35 mi., in spring. About $750,000. C. F. W. Loweth, Railway Exchange Bldg., St. Paul, Ch. Engr.

Missouri—Southwest Missouri R.R. making plans extension from Galena, Mo., to Baxter Springs, Kan., about 9 mi. A. H. Rogers, 112 North Madison St., Webb City, Pres. and Treas.

Texas—A. L. Matlock, San Antonio, interested in railway from Deepwater across Rockport Bay to Lamar, Refugio and other points in central Texas to Quanah.

Texas—Atchison, Topeka & Santa Fe Ry. plans extension from Lindsay to Wichita Falls. C. F. W. Felt, Chicago, Ch. Engr.

Texas—Missouri, Kansas & Texas Ry. plans to double-track main line from Pacific Ave. to Walters St., Dallas. About $600,000. L. F. Lonnbladh, Dallas, Ch. Engr.

Oklahoma—Ringling & Oil Fields Railroad Co. incorporated with $300,000 capital stock, plans line from Ringling to Oklahoma City, about 120 mi. J. L. Hamon, of Oklahoma, New Mexico & Pacific R.R., interested.

Arizona—Arizona & Swansea Railroad Co. making surveys extension 40 mi. northeast from Bouse to Bagdad copper dist. A. W. Mitchell, Bouse, Gen. Mgr.

Washington—Chicago, Milwaukee & St. Paul Ry. plans line from Elma into Olympic Peninsula in spring. C. F. W. Loweth, Railway Exchange Bldg., St. Paul, Ch. Engr.

California—Municipal Railways of San Francisco plans 20 mi. new tracks into residential district. T. A. Cashin, San Francisco, Supt.

California—Salt Lake & Los Angeles Ry., Salt Lake Route, plans line from Pico to Santa Ana, about 25 mi. J. Nelson, Salt Lake City, Utah, Pres. and Gen. Mgr.

Bids In and Contracts Awarded

Illinois—Aurora, Mendota & Western R.R. to build electric railway from Aurora to Mendota by day labor. H. D. Hallett, 132 Downer Pl., Engr.

Idaho—Idaho Match Block Co., Sandpoint, let contract logging railroads to G. A. CARLSON, Spokane, Wash.

Utah—Western Pacific R.R. let contract grading and placing track on branch line from Grants Station on main line west from Salt Lake City to Tooele, about 16 mi., to UTAH CONSTRUCTION CO., Ogden.

California—Salt Lake & Los Angeles Ry., Salt Lake Route, let contract 18-mi. extension from Pico to Anaheim to R. SHERER & CO., 650 Pacific Electric Bldg., Los Angeles, about $260,000

LIGHT, HEAT AND POWER

Proposed Work

Maine, Islesboro—Islesboro Inn making plans power house in Dark Harbor Dist. Evans & Warner, Witherspoon Bldg., Philadelphia, Penn., Arch.

Maine, South Berwick—Berwick & Salmon Falls Electric Co., Masonic Bldg., Dover, N. H., making plans power plant to include concrete dam 240 ft. long and 16 ft. high. About $100,000. I. W. Jones, Milton, Engr. Noted Nov. 30.

Vt., Barre—Central Power Co., recently organized to develop water powers on Middlebury River and branches applied to Council for franchise transmission lines into Barre.

Vt., Gaysville—Gaysville Electric Light and Power Co. plans extending electric transmission line to Barnard Village. I. M. Frost, Gryphon Bldg., Brandon, Vt., Vice-Pres. and Gen. Mgr.

Mass., Weymouth—Weymouth Light and Power Co. plans extending distributing system.

Conn., Devon—(Milford post office)—United Light and Water Co., Waterbury, plans power plant at Devon. About $1,000,000.

N. Y., New Lebanon—Albany Southern Railroad Co. plans extending transmission line from Brainard to New Lebanon. G. F. Silvia, Rensselaer, Ch. Engr.

N. Y., Rushford—Cuba Electric Co. plans extending transmission line.

N. Y., Rossie—Village plans electric-light and power plant.

N. J., Newark—Bd. Pub. Wks. considering electric-light plant and power station on Elizabeth Ave.

N. J., Newton—Newton Electric and Gas Co., recently incorporated with $500,000 capital stock, applied to Bd. Pub. Utility Comrs. for permission to issue bonds to extend and improve plant.

Penn., Ambridge—Duquesne Light Co., Pittsburgh purchased site at Ambridge, plans substation. F. Uhlenhaut, Jr., Pittsburgh, Ch. Engr.

Penn., Tunnelton—Bessemer Coal and Coke Co. making plans 1-story, 44x101-ft. substation. Randolph Means Co., Oliver Bldg., Pittsburgh, Engr.

Va., Franklin—City plans voting on $40,000 bonds to improve electric-light system.

Va., Franklin—See item under "Water-Works."

Va., Richmond—Virginia Railway and Power Co. granted permit for 13,500-volt transmission line to connect with American Locomotive Works.

W. Va., Clarksburg—Monongahela Valley Traction Co., Fairmont, and Clarksburg Light and Heat Co. plan transformer station in Clarksburg.

Ga., Greensboro—City plans electric-light plant.

Fla., New Smyrna—City plans street-lighting system.

Ala., Canton—Town granted Alabama Power Co. franchise to install electric-light plant.

Ohio, Athens—Ohio State Hospital made application to State Bd. Administration for appropriation for power plant and other improvements. About $50,000.

Ohio, Cleveland—Ward Baking Co. plans power house on Perkins Ave. C. B. Comstock, 110 West 49th St., New York, Arch.

Ohio, Monroe—Middletown Gas and Electric Co., Middletown, plans extending transmission line to Monroe.

Ohio, Oxford—City voted $10,000 bonds to rebuild and extend electric-light plant.

Ill., Gibson City—Bd. Local Impvts. making plans electric-light and water plant. Receiving bids Apr. 1. About $30,000. Melluish & Broyhill, Unity Bldg., Bloomington, Engr.

Ill., Granite City—Pub Utilities Comn. granted Madison County Light and Power Co. permission for transmission line from Granite City to Nameoki.

Wis., Milltown—Town granted A. O. Dahlberg, Clam Falls, franchise electric-lighting system for period of 25 years.

Wis., Thorp—Wisconsin-Minnesota Light and Power Co. plans extending transmission line to Thorp. J. H. Brewer, Grand Rapids, Mich., Pres.

Wis., Waupaca—Waupaca Electric Service and Railway Co. plans improving power plant.

Iowa, Nora Springs—Nora Springs Light and Power Co. plans improvements.

Iowa, Webster City—City receiving bids Jan. 8 improving electric-light and water plants. Noted Dec. 7.

Minn., Wabasha—Wisconsin & Minnesota Light and Power Co. will build transformer station by day labor.

Neb., Oconto—Local business men plan to organize company to install electric-light plant.

S. D., Lesterville—Council plans election to vote on $18,000 bonds to build electric-light plant.

N. D., McHenry—City voted bonds to build electric-light plant.

Wyo., Cokeville—I. McNeice interested in construction electric-light plant on Pine Creek.

Mo., Mt. Vernon—City making plans electric-light plant. About $10,000. C. Moore Engineering Co., Frisco Bldg., Joplin, Engr. Noted Oct. 26.

Tex., Garwood—J. J. Cooper and associates plan electric-light and power plant.

Tex., Marlin—Marlin Ice and Electric Co. plans extending and improving electric-light plant.

Tex., Newcastle—Newcastle Light and Power Co. granted franchise electric-light plant.

Okla., Collinsville—Comrs. making plans extending electric-light plant.

Okla., Lindsay—City voted $8,000 bonds to improve electric-light plant.

Calif., Los Angeles—Sespe Light and Power Co., Los Angeles, making plans hydro-electric plant on Ventura River. R. Bennett, Central Bldg., Los Angeles, Engr.

Calif., Niland—Southern Sierras Power Co., Riverside, plans transmission line from Niland to head of Almo Canal. About $150,000.

Que., Lake Megantic—Lake Megantic Electric Co. will rebuild plant recently destroyed by fire.

B. C., Trail—Consolidated Mining and Smelting Co. of Canada plans improving lighting and power systems. About $25,000 or $30,000.

Bids In and Contracts Awarded

N. Y., Rensselaer—Bayer Chemical Co. let contract 1-story, 50x75-ft. power plant to OSCAWANA BUILDING CO., 101 Park Ave., New York.

Ill., Kewanee—Kewanee Boiler Co. let contract 1-story boiler house to V. JOBST & SONS, 218 South Adams St., Kewanee.

BRIDGES

Proposed Work

N. H., Manchester—City plans new bridge to replace Amoskeag Bridge. About $100,000 to $200,000. S. J. Lord, City Engr.

Mass., Chicopee—City plans to replace bridge on Grattan St. over tracks Boston & Maine R.R. with steel structure. F. P. Cobb, City Engr.

R. I., Woonsocket—See item under "Streets and Roads."

N. Y., Poughkeepsie—New York, New Haven & Hartford R.R. plans to remodel and improve Poughkeepsie Bridge over Hudson River. About $750,000. E. Gagel, New Haven, Ch. Engr.

N. Y., Yonkers—Bd. Supervs. Westchester County soon receives bids, bridge over Bronx River between Yonkers and Tuckahoe, 89 ft. long, 43-ft. span, rein.-con., granite facing. About $17,000. H. Green, White Plains, County Clk. C. MacDonald, Jr., Tarrytown, Engr. Noted Jan. 6.

Penn., Mont Clare—Montgomery County soon receives bids, bridge over canal in Mont Clare. About $15,000. R. A. Hatfield, Norristown, County Clk.

W. Va., Fairmont—City voted $760,000 bonds to build 2 bridges, 1 over Monongahela River, about $350,000, and remainder for improvements. S. B. Miller, City Engr. Noted July 6.

W. Va., Grafton—Taylor County soon receives bids 8 concrete bridges. Address County Clk., Grafton.

Bridges (Continued)

Ga., Woodbine—Comrs. Rds. and Revenues, St. Marys, lets contract in spring bridge over Satilla River on eastern branch Dixie Highway. About $20,000. W. M. Torrance, 814 Savannah Bank and Trust Bldg., Savannah, Engr. Noted May 11.

Ala., Flomaton—Escambia County receiving bids Dec. 22, steel or concrete bridge, 400 ft. long, over Big Escambia Creek. Address County Clk., Brewton.

Tenn., Manchester—City plans viaduct over tracks Nashville, Chattanooga & St. Louis Ry. on McLean St. H. McDonald, Nashville, Ch. Engr.

Ohio, Ashland—(Official)—Ashland County receiving bids Jan. 5 bridges in Mifflin and Milton Townships. G. Brubaker, Ashland, County Clk.

Ohio, Canton—City plans 1,077-ft viaduct over tracks Wheeling & Lake Erie R.R., branch of East Creek and property of United Furnace Co. to Georgetown Rd. About $70,000. W. E. Sarver, City Engr.

Mich., Detroit—Bd. Consult. Engrs. estimate cost rein.-con. bridge connecting city with Belle Isle at $2,000,000; subway approach from mainland at Jefferson Ave. at $125,000. M. E. Cooley, University of Machigan, Chn.

Ill., Pontiac—Livingston County receives bids about Feb. 1, bridge over Vermillion River, three 90-ft rein.-con. spans, 42 ft. wide. About $30,000. Address County Clk., Pontiac.

Wis., Milwaukee—City plans State Oneida St. bridge over Milwaukee River. J. C. Pinney, Jr., Comr. Bridges. G. Staal, City Engr.

Wis., Weblake—Joint Town and County Com. plans 70-ft. steel truss bridge over Namakagan River. H. Jeffries, Danbury, County Highway Comr. in charge plans.

Iowa, Des Moines—City receiving bids Dec 22, bridge on Court Ave. About $175,000. Marsh Engineering Co., Engr. Noted Apr. 13.

Iowa, Dows—Wright County making plans improving Iowa River bridge north of Dows. Plans include 2 new spans, 2 rein.-con. abutments, new steel joists to present 100-ft. span and paving roadway, wood block. L. G. Krull, Clarion, County Engr.

Iowa, Marshalltown—Marshall County sold $50,000 bonds to build bridges. Address County Clk., Marshalltown.

Iowa, Rock Rapids—Lyon County soon lets contracts bridges. About $70,000. W. E. Wyckoff, Rock Rapids, County Engr.

Minn., Fond du Lac—St. Louis County appropriated $40,000, bridge over St. Louis River. Address County Clk., Duluth.

Minn., Red Wing—Goodhue County making surveys several rein.-con. bridges. C. W. Johnson, Red Wing, County Engr.

Kan., Paola—Miami County receiving bids Dec. 27, 9 steel and rein.-con. bridges. C. H. Helman, Paola, Clk. Noted Nov. 16.

Mont., Superior—Mineral County voted $75,000 bonds to build bridges on Yellowstone Trail. Address County Clk., Superior.

Mo., Kansas City—Officials of Kansas City, Mo., and Kansas City, Kan., Missouri Pacific and Union Pacific Rys. to rebuild James St. Viaduct between 2 cities. Kansas City, Mo., to bear $7,000 of cost, Kansas City, Kan., $20,000, and railways $98,000. C. Hill, City Engr., Kansas City, Mo. Noted June 22.

Ark., Batesville—(Official)—Independence County receiving bids Jan. 3, 5 steel bridges. F. C. Hoyt, Batesville, County Judge.

Okla., McLoud—Bales Township voted $25,000 to build culverts. Noted Nov. 16.

Okla., Oklahoma—Oklahoma County making plans 10 bridges. About $20,000. H. C. Adams, Oklahoma, County Engr.

Okla., Oklahoma—Oklahoma County soon lets contract 20 steel and concrete bridges, 9 of which will be over North Canadian River. About $35,000. H. Adams, Oklahoma, County Engr. Noted Oct. 5.

Utah, Salt Lake City—City will ask State Legislature to appropriate money bridge between City Creek Canyon and Wasatch Blvd. connecting latter at 11th Ave. About $150,000 to $200,000. J. Dern, State Capitol Comr.

Wash., Seattle—(Official)—Bd. Pub. Wks. receiving bids Dec. 22 wooden draw bridge. About $7,000. F. A. Rapp, Bridge Engr. Noted Nov. 23.

Wash., Toledo—Lewis County made surveys bridge over Cowlitz River. Address County Clk., Chehalis.

Ore., Grants Pass—See item under "Streets and Roads."

Ont., Alvinston—Michigan Central Ry. plans rein.-con. bridge. G. H. Webbs, Pass Terminal Station, Detroit, Mich., Ch. Engr.

Ont., Hamilton—City soon lets contracts bridges at Bronte, Oakville and Port Credit on Hamilton-Toronto Highway; also 24-ft road from Etobicoke to Toronto. H. Bertram, Comr.

B. C., Prince George—Provincial Dept. Pub. Wks. plans bridge over Fraser River. About $150,000.

Bids In and Contracts Awarded

Mass., Boston—Boston & Albany Railroad Co. let contract drawbridge over Chelsea Creek, East Boston, to STRAUSS BASCULE BRIDGE CO., 104 South Michigan Ave., Chicago.

N. Y., Lockport—City received low bid bridge on Adams St. from TIFFT CONSTRUCTION CO., Buffalo, about $82,276.

Penn., Philadelphia—Dept. Pub. Wks. let contract painting and repairing bridges to AMERICAN R. C. CO., 211 South 9th St., and M. & J. B. McHUGH, 892 North Market St. About $49,641.

N. C., Gastonia—Gaston County let contract bridge over Long Creek between Gastonia and Dallas to C. W. REQUARTH & CO., Asheville, about $6,880.

La., Des Allemanda—(Official)—Highway Dept. let contract bridge over Bayou Des Allemanda to BLODGETT CONSTRUCTION CO., Shreveport, about $21,612. Noted Nov. 16.

Ohio, Chillicothe—Baltimore & Ohio Railroad Co. let contract substructure bridge to SHEOSLEY & JANEY CONSTRUCTION CO., Johnstown, Penn.; superstructure to FT. PITT BRIDGE CO., House Bldg., Pittsburgh. About $50,000.

Ohio, Dayton—Montgomery County let contract bridge No. 174, Jefferson Township, to HACKEDORN CONSTRUCTION CO., Indianapolis, about $30,000. Noted Nov. 9.

Ind., Shoals—(Official)—Martin County let contract 3 bridges to VINCENNES BRIDGE CO., Vincinnes, about $4,990. Noted Nov. 30.

Ind., Terre Haute—Vigo County let contract McKean Bridge to CRABB & LANDINE, Sullivan, $8,000. Noted Dec. 7.

Ind., Terre Haute—Vigo County let contract NATIONAL CONCRETE CO., Indianapolis, Anderson Bridge, Hamilton Township, $11,750; Alterkruse Bridge, Honey Creek Township, $10,600.

Ill., Quincy—Adams County let contract bridge Atlas Township to W. HOOS, QUINCY, about $8,000.

Wis., Potter—Calumet County let contract 6 bridges to J. YOUNG & BROS., Oconto.

Iowa, Des Moines—City let contract bridge over Des Moines River on Grand Ave. to W. HORRABIN, Iowa City, about $180,000. Noted Nov. 2

Mo., Huntsville—Randolph County let contract 9 steel and 1 concrete bridges to LYNCH-McDONALD CONSTRUCTION CO., Moberly, about $6,000.

Okla., Pawhuska—(Official)—City let contract 510-ft. rein.-con. bridge over Bird Creek to WESTERN BRIDGE CO., Harrisonville, Mo., $32,600. Noted Nov. 23.

Okla., Sapulpa—County let contract bridge over Cimarron River to KANSAS CITY BRIDGE CO., Kansas City, Mo.

N. M., Santa Fe—Mora County let contract 2 bridges over Canadian River at Romero Crossing to MISSOURI BRIDGE CO., about $23,897.

Calif., Eureka—(Official)—Northwestern Pacific Railroad Co. let contract steel work bridge over Eureka Slough between Eureka and Arcata to AMERICAN BRIDGE CO., Rialto Bldg., San Francisco. Other work to be done by day labor. Noted Nov. 30.

N. B., Fredericton—St. John & Quebec Ry. let contract bridge over Nerepis River to NOVA SCOTIA CONSTRUCTION CO., 159 Upper Water St., Halifax, $22,000.

Ont., Toronto—City let contract bridge foot Cherry St. to DOMINION BRIDGE CO., about $49,641. Noted Sept. 30.

WATER-WORKS

Proposed Work

Maine, Calais—Maine Water Co. plans to secure water from Howard Lake, about 6 mi. distant; 14- and 16-in. pipe will be needed. I. R. Bradley, Supt.

Mass., Georgetown—City plans water system.

Mass., Springfield—(Official)—Bd. Pub. Wks. does not plan to spend $7,000 to install water mains, as noted in Nov. 30 issue.

N. Y., Rochester—Council adopted resolutions water mains in Yates and Winbourne St., Devon Rd. and Brookdale Ave. B. C. Little, Supt.

N. Y., Yonkers—City plans water main in Dunham Rd to extend system. E. L. Peene, Supt.

N. Y., Yonkers—(Official)—Bd. Pub. Wks. receiving bids Dec. 18, 3,000,000-gal. pump in tube well station. E. L. Peere, Supt. Noted Nov. 30.

N. J., Butler—Bd. Pub. Utility Comrs. granted permission to Butler Water Co. to divert and impound waters of Apshawa Brook, connecting with Pequannock River, for local distribution. G. L. Fritz, Secy. and Treas.

N. J., Linden—Linden Water Co. granted permission by State Dept. of Conservation and Development, Trenton, to divert water from Florence Mill Pond to supply Linden and neighboring communities. Noted May 18.

N. J., South Orange—Bd. Trustees plans to enlarge water system.

Penn., Altoona—City plans pumping station at Lake Altoona. About $6,000. C. W. Knight, Rome, N. Y., Engr.

Penn., Elwood City—Elwood City Water Co. making plans, concrete reservoir. R. I. Burt, Supt.

Penn., Harrisburg—Council passed ordinance to lay 5-in. water pipe in Chestnut St. H. F. Bowman, Supt.

Penn., Johnstown—Conemaugh & Franklin Water Co. will issue $125,000 bonds to build filtration plant and dam. Noted Aug. 10.

Penn., Philadelphia—New Chester Water Co. receiving bids Dec. 27, reservoir and 18- and 24-in. c.-i. pipe from reservoirs to Marcus Hook. A. W. MacCallum, 26th and 3rd St., Philadelphia, Mgr.

Md., Baltimore—Water Bd., City Hall, made plans for water-works in South Baltimore. A. O. Babendreier, Supt.

Md., Salisbury—City plans improvements to water system. E. J. C. Parsons, Pres. of Council.

Va., Farmville—City plans to issue $15,000 bonds to build water system. B. L. Dugger, Supt. W. M. Piatt, Durham, N. C., Engr.

Va., Franklin—City to issue $40,000 bonds to extend water and sewer systems, build filter plant, improve electric-light plant and streets. W. O. Bristow, Finance Comr.

Va., Petersburg—City plans $250,000 bond issue to build water and sewer mains and street paving. R. D. Budd, City Engr.

Ga., Tennille—City plans water system.

Fla., Tarpon Springs—City plans election to vote on $15,000 bonds to extend water-works.

Ohio, Bradford—Miami and Drake Counties vote Jan. 1 on bonds to install water system. A. E. Kimberly, 1031 Columbus Savings and Trust Bldg., Columbus, Engr. O. H. Preston, Supt., Water Dept. Noted Sept. 28.

Ohio, Cleveland—National Artificial Silk Co. plans filtration plant at 1,000 Walworth Rd. About $7,500.

Ohio, Cuyahoga Falls—(Official)—City receiving bids Dec. 18, 5,000 lin.ft. 6-in. and 12,000 lin.ft 4-in. water mains in Brodbeck Park. E. D. Barstow, Engr.

Ohio, Deshler—City made plans water system.

Ohio, Euclid—City will build 10-in. water main in Euclid Ave. H. Migner, Supt.

Ohio, Lorain—Bd. Pub. Ser. soon receives bids improving water system. About $50,000. L. M. Moore, Mayor.

Ohio, Mansfield—Bd. of Control receiving bids Dec. 20, installing 2,300 water meters. W. R. Kuhn, Secy.

Ohio, New London—Council passed ordinance to build water-works. About $56,000. A. Ledgett, Clk. of Council. Noted Nov. 2

Ohio, St. Bernard—City voted $90,000 bonds to build water-softening plant. E. C. Heller, Supt. Noted Nov. 9.

Ohio, Westerville—City receiving bids in January improving water system. Richards Engineering Co., 37½ Long St., Columbus, and Herring & Gregory, New York, Consult. Engr. Noted Oct. 5.

Ohio, Zanesville—(Official)—W. W. Roach, Dir. Pub. Ser., receiving bids Dec. 20, steam, water, exhaust and air piping in pumping station, heater and boiler feed pumps, Item No. 8.

Ill., Gibson City—City receiving bids Apr. 1, water and light plant. Noted Nov. 9.

Ill., Springfield—City plans water main from pumping station to city. About $150,000. W. J. Spauding, Comr.

Wis., Hartford—City soon receives bids for artesian well on 6th St. Also plans 500,000-gal. reservoir. H. Parfrey, Supt.

Wis., Manitowoc—City plans 5,000 lin.ft. 6- and 8-in. pipe with 10 hydrants. L. K. Pitz, City Engr.

Wis., Marinette—City Water Co. plans improving plant.

Wis., Marshfield—City receives bids in January, improving water system. T. M. Young, Supt. Noted Nov. 9.

Iowa, Iowa Falls—City plans water system. B. S. Morgan, Supt.

Iowa, Madison—City plans water system; also extending sewer system. About $25,000. M. F. Brooks, Mayor.

Iowa, Webster City—See item under "Light, Heat and Power."

Iowa, West Burlington—City to vote Dec. 26 on $70,000 bonds to improve water-works and to build storm and sanitary sewers. Noted Nov. 2.

Iowa, Woodworth—City will vote Dec. 18 on $7,500 bonds to build water-works.

Minn., Marshall—City retained O. H. Stark, Engr., Marshall, to make plans water system, sewers and drainage work. About $500,000.

Minn., Plainview—Council approved plans water system. J. F. Druar, 312 Commercial Bldg., St. Paul, Consult. Engr. Noted Oct. 5.

Minn., West Concord—(Official)—City voted $8,500 bonds to build water-works. R. C. Jones, Supt. Noted Nov. 30.

Neb., Niobrara—City voted bonds to build water-works.

Neb., Scotts Bluff—(Official)—City voted $32,000 bonds to improve water-works. O. M. Finley, Supt. Noted Nov. 16.

S. D., Castlewood—City making plans, water system, including mains, tower and pumping station. About $20,000. Freed & Sours, Inc., Watertown

Mo., El Dorado Springs—City receiving bids Dec. 19, improving water system. About $20,000. Noted Nov. 2.

Water-Works (Continued)

Tex., Ft. Worth—City plans to improve filter plant. About $50,000. L. H. Blanke, Supt.

Tex., Greenville—City plans water-works improvements. C. I. Newman, Supt.

Okla., Crescent—(Official)—City does not plant water-works and sewer system as stated in issue of Nov. 30.

Okla., Kendall—City election Dec. 21 to vote on $45,000 bonds to install water-works. Noted Dec. 7.

Okla., Lindsay—City voted $6,000 bonds to improve water and light plant. A. W. Simpson, Supt. Noted Nov. 16.

Okla., Lindsay—City will purchase engine and other equipment for pumping station. A. W. Simpson, Supt.

Okla., Weleetka—Water-Works Co. plans 2 settling basins and filter plant, 500,000-gal. capacity, with motor-driven pumps.

Colo., Brush—City voted $8,000 bonds to install water system. A. D. Lierskow, Supt.

Colo., Denver—City plans extending water mains. D. G. Thomas, Supt.

Colo., Ft. Collins—City plans reservoir next year. A. A. Edwards, Supt.

Utah, Price—City plans 24 mi. pipe line from Colton to Price. About $200,000. A. Pace, Supt.

Ariz., Bisbee—Bisbee—Naco Water Co. plans 50,000-gal. tank at water-works. A. E. Sheppard, Supt.

Ariz., Williams—Council granted franchise to build water system to Williams Water and Electric Co. G. W. E. Griffith, 911 Trust and Savings Bldg., Los Angeles, Calif., Pres. Noted June 15.

Wash., Camas—City plans water system. About $50,000. L. B. Wickersham, 1000 Chamber of Commerce Bldg., Portland, Consult. Engr.

Wash., Seattle—F. W. Allen, Engr., Seattle, made plans water system in Water Dist. No. 2. L. B. Youngs, Supt.

Ore., Hubbard—City made plans water system.

Que., Three Rivers—City plans to improve water system. R. S. & W. S. Lea, New Birks Bldg., Montreal, Consult. Engr.

Ont., Smith's Falls—Town plans water main and sewer in Atlronto St. About 3,500 ft. vitrified sewer pipe and same of c.-i. pipe. J. C. Hayes, Supt.

Man., Winnipeg—City soon receives bids water mains and sewer in Academy Rd. About $6,000. T. H. Hooper, Supt.

Bids In and Contracts Awarded

Mass., Boston—Bd. Pub. Wks let contract 1,660 lin.ft. 8-, 10- and 12-in. water pipe to A. CEFALO, 316 Belgrade Ave., Roxbury.

N. Y., New York—(Manhattan)—(Official)—W. Williams, Comr. Water Supply, Gas and Electricity, Municipal Bldg., Manhattan, received low bid Dec. 11, water mains in 5th and 6th Ave. and East 38th St. from Seracci Contracting Co., 170 Broadway, Manhattan, $18,219. Noted Dec. 7.

N. Y., Thiells—Bd. Mgrs. Lethworth Village let contract alterations to storage reservoir to J. W. HOLLER, Upper Broadway, Ft. Edward. Noted Nov. 9.

N. J., Bridgeton—(Official)—City received low bids c.-i. pipe from R. D. Wood & Co., 400 Chestnut St., Philadelphia, Penn., $20,545; Central Foundry Co., 90 West St., New York, $20,398; United States Cast Iron Pipe and Foundry Co., Morris Bldg., Philadelphia, Standard Cast Iron Pipe and Foundry Co., Bristol, Penn., Donaldson Iron Co., Emaus, Penn., total of bids not extended; valves, Rensselaer Valve Co., 50 Church St., New York, $1,113; Eddy Valve Co., Waterford, N. Y., $1,113; hydrants, J. Thompson Co., Van Horn and Sophia St., Philadelphia, $1,278; coagulation basin, P. A. Hennessy, Haddonfield, N. J., $6,293; pig lead, N. Trotter & Co., 36 North Front St., Philadelphia, $0.0785 per lb. Noted Nov. 30.

Penn., Franklin—City rejected bids for rein.-con. pump well. J. G Crawford, City Clk. Noted Nov. 30.

Md., Baltimore—Maryland House of Correction will build water-works by convict labor. About $40,000.

Fla., Arcadia—City let contract water-works and sewers to FLORIDA NATIONAL VAULT CO., Lakeland, $39,000.

Ohio, Cincinnati—Bd. Contral let contract water mains in district bounded by 4th and 8th St., Central Ave. and Broadway, to THURBER & BROWNING CO., 4231 Spring Grove Ave., about $55,834.

Ohio, Cleveland—City let contract rebuilding clear water basin of Division Ave. filter plant to I. F. CASEY CONSTRUCTION CO., Oliver Bldg., Pittsburgh, Penn., $328,317. Noted Nov. 23.

Ohio, Troy—(Official)—Council let contract to PITTSBURGH METER CO., East Pittsburgh, Penn., for 1,000 water meters, $10,000. Noted Oct. 5.

Mich., Ann Arbor—(Official)—Ann Arbor Water Comn. let contract water pipe to HAMMOND BYRD IRON CO., 122 South Michigan Ave., Chicago, Ill., $36 75 per ton f.o.b. Ann Arbor. Noted Nov. 30.

Mich., Otsego—(Official)—City let contract improving water-works to TRAVERSE CITY IRON WORKS, Traverse City, Mich., $16,580. Noted Nov. 30.

Ill., Amboy—City let contract extending water mains to new hospital building to J. P. HARVEY.

Ill., Chicago—(Official)—City let contract 2 motors for pumping station to UNITED ENGINEERING CO., 327 5th Ave., Chicago, $38,740. Noted Nov. 2.

Wis., Elkhorn—City let contract water mains in Winsor, Adams and Wisconsin St. to A. M. LANYON.

Wis., West Allis—(Milwaukee Post Office)—Milwaukee Light, Heat and Traction Co., Public Service Bldg. let contract artesian well at power station, 77th and Summit Ave. to GRAY ARTESIAN WATER SUPPLY CO., 218 15th St., $8,000.

Minn., St. Paul—City received low bids sluice gates from Coldwell & Wilcox, Newburgh, $8,755; gate valves, J. B. Clow & Son, 544 South Franklin St., Chicago, $2,552; reinforcing steel, C. A. P. Turner Co., 615 Ryan Bldg., square twisted, $33,990, Jones & McLaughlin diamond bar, $32,800. Noted Nov. 16.

Minn., St. Paul—City let contract water system to THORNTON BROS., $37,982. Noted Aug. 17.

Mont., Troy—City let contract 60,000-gal. reservoir to F. E. EVANS CONTRACTING CO., Great Falls.

Tex., El Paso—City let contracts water system to FULTON IRON WORKS, engine and Aldrich pump, $58,700; U. S. CAST IRON CO., 10,000 ft. 24-in. Class B c.-i. pipe, $35.95 per ton; BAUMGARTEN & WYLE, pumping plant, $4,600. Noted June 22.

Tex., Llano—A. J. Zilker, Austin, let contract filter plant to G. HORNADAY, Dallas.

Okla., Oklahoma—(Official)—City let contract two large Ambursen dams, flood control works, emergency dam, brick and steel gate houses, feed control system, 500 ft. rein. conduit, etc., to AMBURSEN CONSTRUCTION CO., 61 Broadway, New York, N. Y. Complete water system to cost $1,500,000. H. M. Nabstedt, Res. Engr. G. V. McClure, City Engr. Noted Nov. 30.

Calif., San Rafel—Marin Municipal Water Dist. let contract tunnel under Pine Mountain to McLERAN & PETERSON, Sharon Bldg., San Francisco, $257,400. Noted Dec. 7.

Calif., Santa Barbara—City let contract to NATIONAL CAST IRON PIPE CO., Sheldon Bldg., San Francisco, 6-in. c.-i. pipe, $39.75 per ton; 4-in., $42.75; 10-in., $49.75.

Man., Winnipeg—(Official)—Greater Winnipeg Water Dist. Comrs. let contract 150,000 bbl portland cement in connection with water system to CANADA CEMENT CO., Union Trust Bldg., $2.61 per bbl. Noted July 13.

SEWERS

Proposed Work

N. Y., Rochester—City soon receives bids sewers in Keller, Ohio, Kansas St. and Blossom Rd. About $32,800. F. S. Elwood, City Engr. Noted Nov. 16.

N. J., Bernardsville—City plans sewer system. About $80,000.

N. J., Leroy—City making plans sewer system. J. P. Wells, Rochester, Consult. Engr.

N. J., Trenton—City plans disposal plant on Buttonwood Island.

Penn., Erie—City receiving bids in January storm sewer Parade and Division St. About $25,000. F. G. Lynch, City Engr. Noted June 15.

Penn., Monaca—City making plans sewer system.

Penn., Pittsburgh—Council passed ordinance improving sewers portion Reedsdale St. R. Swan, City Engr.

Penn., Reading—City plans disposal plant. About $95,000. E. Ulrich, City Engr.

Penn., Williamsport—City soon receives bids sewers in Government Pl. and West Front St. J. B. Otto, City Engr.

Va., Franklin—See item under "Water-Works."

Va., Petersburg—See item under "Water-Works."

Va., Roanoke—City receives bids Dec. 26 sewers. F. L. Gibbonney, City Engr.

Fla., Arcadia—See item under "Water-Works."

Fla., St. Petersburg—City soon votes on $150,000 bonds to build sewers and disposal plant

Ohio, Bucyrus—Council passed ordinance improving Meadow Lawn Addition Sewer. F. L. Niederheiser, City Engr.

Ohio, Cahrdon—Council passed ordinance sanitary sewers and sewage-treatment plant. R. S. Parks, Village Clk.

Ohio, Canton—Council passed ordinance sewers in Parkhill, St. Elmo Ave., Olive Pl. and 4th St. W. E. Sarver, City Engr.

Ohio, Crestline—Council passed ordinance sewers in portion Bauer Ave. and South Selzer St. C. N. Babst, Mayor.

Ohio, Cuyahoga Falls—(Official)—City receiving bids Dec. 18, 10,000 ft. 8-in. and 3,200 ft. 12-in. sewers with "Y" branches and manholes, in Brodbeck Park. E. D. Barstow, Engr.

Ohio, Cuyahoga Falls—City receives bids Jan. 1 sewer in Front St. About $60,000. E. D. Barstow, City Engr.

Ohio, Dayton—City Comrs. authorized city to vote on $77,000 bonds in addition to $175,000 recently voted to build storm sewers. F. O. Eiheiberger, City Engr.

Ohio, Elyria—Council passed ordinance sewer in portion Sewer Dist. No. 2. C. M. Braman, Clk.

Ohio, Ironton—Council passed ordinance sewers in 5th, 8th, Pine and Vine St. L. G. Howell, City Engr.

Ohio, Lorain—Council passed resolution improving portion East 26th St. C. M. Osborne, City Engr.

Ohio, Marion—City plans improving portion Hane Ave. Sewer. E. T. Ouet, City Engr.

Ohio, New Breman—City plans sewers in portion Herman St.

Ohio, Newcomerstown—City plans disposal plant.

Ohio, Shaker Heights—(Cleveland post office)—City receiving bids Dec. 19, storm and sanitary sewers in Kemper Rd. C. A. Palmer, 2855 Coventry Rd., Clk.

Ohio, Springfield—Council passed ordinance sanitary sewer in portion High St. M. J. Bahin, City Engr.

Ohio, Toledo—City made plans Ten-Mile Creek Sewer Dist. H. McKenchnie, City Engr.

Ohio, Woodsfield—Council passed ordinance sewer in portion Home Ave.

Ohio, Worthington—City plans sanitary sewer system. About $40,000.

Ohio, Youngstown—Council passed ordinance sewer in portion Wesley Ave. F. M. Lillie, City Engr.

Mich., Albion—City receiving bids in spring sanitary and storm sewers. About $30,000. W. E. Baumgardner, City Engr.

Mich., Brown City—City making plans sewer system. L. A. Boulay, 1250 Nicholas Bldg., Toledo, Ohio, Engr.

Mich., Flint—City plans to spend $167,000 storm sewers, $53,000 intercepting sewers, $28,000 sanitary sewers and $52,000 for paving during 1917. E. C. Shoecraft, City Engr.

Mich., Grand Rapids—Bd. Pub. Wks. plans disposal plant. W. S. Moore, City Engr.

Mich., Northville—City plans sanitary sewers and disposal plant. C. W. Hubbell, 2338 Penobscot Bldg., Detroit, Engr.

Ill., Dixon—Bd. Local Impvts. plans extending sewers in 4th St.

Ill., Dixon—Bd. Local Impvts. plans sewer in Monroe Ave. and Everett St. C. F. Nesbit, City Engr.

Ill., Hillsboro—Bd. Local Impvts. making plans sewer system. W. D. P. Warren, Decatur, Engr. Noted Nov. 9.

Ill., Quincy—City plans sewers in various streets. F. L. Hancock, City Engr.

Ill., Rock Island—City receiving bids Jan. 2 sewers and disposal plant. W. Treichler, City Engr. Noted Nov. 23.

Ill., Waukegan—Council passed ordinance sewers in portion Seward St. About $12,892 M. J. Douthitt, City Engr.

Wis., Menomonie—City making plans sanitary sewer in portion 10th St., receiving bids some time in January or February. F. Stewart, City Clk.

Iowa, Burlington—Council plans sewer in portion Doemland St. C. E. Waterhouse, City Engr.

Iowa, Madison—See item under "Water-Works."

Iowa, Sioux City—City plans West Morningside and North Riverside Sewer Systems. T. H. Johnson, City Engr.

Iowa, West Burlington—City votes Dec. 28 on bonds to build storm and sanitary sewers. Stevens & Stiles, 220 Commerce Bldg., Kansas City, Mo., Engr. Noted Nov. 9.

Minn., Farmington—City made plans sewer system. Bids soon. J. F. Druar, 314 Commercial Bldg., St. Paul, Consult. Engr. Noted Oct. 19.

Minn., Hinckley—City plans sewer system. F. Bass, 244 Plymouth Bldg., Minneapolis, Engr.

Kan., Clay Center—Council passed ordinance sanitary sewers in Sewer Dist. No. 53. E. R. DeBray, City Clk.

Kan., Hiawatha—Council passed ordinance lateral sewer in Dist. No. 1. J. W. Leibengood, City Clk.

Kan., Protection—City making plans sewer system. Black & Veatch, 507 Interstate Bldg., Kansas City, Mo., Engr.

Tex., Bryan—City made plans disposal plant. About $15,000. Noted Nov. 23.

Tex., Dallas—City Comn. plans to vote on $300,000 to build storm sewers. H. Moseley, City Engr.

Tex., Palestine—Council retained R. F. McDonald, Kansas City, Mo., to make plans disposal plant. A. L. Meyers, City Engr. Noted May 11.

Okla., Broken Arrow—City making plans 26,000 ft. 6-in., 12,000 ft. 8-in. and 800 ft. 10-in. sewer pipe and 2 disposal tanks. About $30,000. Machintosh-Walton Co., Oklahoma City, Engr.

Sewers (Continued)

Okla., Kendall—City election Dec. 21 to vote on $50,000 bonds to build sewers. Noted Dec. 7.

Okla., Sapulpa—City receiving bids in January storm sewers. R. E. Jeaness, City Clk.

Okla., Tulsa—City received no bids Nov. 29 sewer in Dist. No. 12. New bids. E. C. Hughes, City Engr.

Wash., Sumner—City making plans extending sewer system. W. P. Woods, City Engr.

Wash., Tacoma—City making plans sewers in 2d School Land Addition. About $65,000; also trunk main on 6th Ave., about $8,000. Noted Oct. 26.

Calif., Seal Beach—City voted Dec. 21 on $45,000 bonds to build sewers and disposal plant. Olmstead & Gillelen, 1011 Hollingsworth Bldg., Los Angeles, Engr. Noted Sept. 28.

Ont., Brantford—City plans storm sewer on Port St T. H. Jones, City Engr.

Ont., Smith's Falls—See item under "Water-Works."

India, Calcutta—(Official)—C. C. Chatterjee, Secy. to Corporation of Calcutta, receiving bids June 1, storm water pumping station. (See adv.)

Bids In and Contracts Awarded

Mass., Boston—E. F. Murphy, Comr. Pub. Wks., City Hall Annex, let contract pipe sewers and drains in Estella St. to G. J. REGAN, 92 Stoughton St., Dorchester.

Conn., New Britain—City let contract sewer in Lyon St. to J. P. MAGUIRE.

N. Y., Johnson City—City let contract sewer in portion Floral Ave. to G. SERAFINI, 10 Lafayette St., Binghamton.

N. Y., Larchmont—(Official)—Village Bd. Trustees received low bids Dec. 4, sewer system, from M. Decicco, $6,822; G. E. GaOgano Co., $7,292; S. Labarbera, $7,532. Noted Nov. 23.

N. Y., New York—(Manhattan)—(Official)—Boro. Pres., Municipal Bldg., let contract sewer in portion Spruce St. to LACONIA CONTRACTING CO., 835 East 213th St., Bronx. Noted Nov. 30.

N. Y., Schenectady—City let contract sewers in Cheltingham and Livingston Ave., to E. B. EDGAR, 737 Brandywine Ave., contract culverts in Chrisler Ave., to BECKWITH BROS., 119 Lafayette Ave.

N. J., Camden—City let contract sewer in portion Magnolia Ave. and Penn Ave. to A. WARD & SON, 524 Trenton Ave. Noted Nov. 2.

Penn., Mt. Lebanon—City let contract sewers to M. OTT & CO., 414 Warrington Ave., Pittsburgh, $8,630.

Penn., Philadelphia—(Official)—Bd Pub. Wks. let contract sewer in Germantown Ave. to DAVID McMAHON, Main and Chelton St., Philadelphia, $16,195.

Md., Hagerstown—Sewerage Comn. let contract 54-in. sewer, 1,100-ft. tunneling to R. CONNER & SON, Greensburg, Penn., $70,860. Noted Nov. 16.

Ga., Savannah—Chatham County Comrs. let contract Fell St. sewer to BEASLEY CONTRACTING CO., Savannah.

Miss., Oxford—Lafayette County Comrs. let contract sewers to A. W. WILLS & SON, Boatmen's Bank Bldg., St. Louis, Mo., $100,000.

Ohio, Cleveland—City let contract sewers in East 140th St. to GAUNE CONSTRUCTION CO., 16,510 Euclid Ave., $27,386.

Ohio, Shaker Heights—(Cleveland Post Office)—Village let contract storm and sanitary sewers in Warwick Rd. and Moreland Blvd. to S. A. HADDAD, 640 Bradley St., Cleveland.

Minn., St. Paul—City let contract sewer in portion Standish St. to THORNTON BROS. CO., 400 Scandinavian American Bank Bldg.

Minn., St. Paul—Dept. Pub. Wks. let contract sewers in portion Brand St. to J. J. CONNOLLY, 1007 Reaney St.; Indiana Ave. to C. JOHNSON, Scandinavian American Bank Bldg.; portions various streets to E. T. WEBSTER, 715 Germania Life Bldg., St. Paul.

Neb., Kearney—Council let contract sewer to C. J. BURKE.

Neb., Omaha—E. P. Donahue, 306 Lincoln Blvd., submitted low bid, $6,070, sewer in Dist. No. 585.

N. D., Fargo—Council let contract trunk line sewer to G. W. KEMPER, Minot. Noted Aug. 17.

Calif., Long Beach—City let contract sewer, Sewer Dist. No. 3, to TOMICH & JAEGER, 553 Pacific St., $37,000. Noted Dec. 7.

GARBAGE

Proposed Work

N. Y., New York—(Bronx)—(Official)—J. T. Fetherston, Comr. Street Cleaning, Municipal Bldg., Manhattan, receiving bids Dec. 21 removal of snow and ice during 1916-1917. Noted Aug. 10.

N. J., Newark—Pub. Market Com. receiving bids Dec. 20 for removal of rubbish, garbage and refuse from Center Market and removal of snow and ice from grounds, roofs and sheds of market for period of 1 year from January, 1917.

Mich., Ann Arbor—(Official)—Council making plans garbage disposal plant. M. Osgood, City Engr.

Bids In and Contracts Awarded

N. Y., New York—(Manhattan)—(Official)—J. T Fetherston, Comr. Street Cleaning, Municipal Bldg., received low bids Dec. 5 for removal of snow and ice during winter season of 1916-1917 from D. Rogge, 3071 Perry Ave., Bronx, 44c. per cu.yd.; Model Construction Co., 46c. per cu.yd.; C DeMarco, 239 East 17th St., 47c. per cu.yd. Noted Nov. 30.

Penn., Philadelphia—(Official)—Dept. Pub. Wks. let contracts collection of ashes (a) Dist. 1A, (b) Dist. 1B, (c) Dist. 2, (d) Dist. 3, (e) Dist. 4A, (f) Dist. 5, (g) Dist. 6 to (a) J. A. MULLEN, 5512 Vine St., Philadelphia, $56,900; (b) J. IRVIN, 25th and Moore St., $74,900; (c) and (d) E. H. VARE, 1120 Race St., $94,900 and $109,100; (e) J D. DORNEY, 1204 East Montgomery Ave., $89,500; (f) R. J. & A. PEOPLES, 25th and Callowhill St., $89,150; (g) D. McMAHON, Estate Main and Chelten Ave., $114,740. Bids rejected cleaning streets, Dist. 5. New bids. Noted Nov. 23.

Penn., Reading—City received low bid garbage disposal plant from Pennsylvania Sewerage and Garbage Co., Philadelphia, $300,000. Noted Nov. 30.

Tex., Magnolia Park—(Houston Post Office)—City let contract garbage incinerator to SPARKS CREMATORY CO., Dallas, $4,000.

Mich., Flint—Council let contract garbage disposal plant to UNITED ENGINEERING CO., 327 South La Salle St., Chicago, Ill. Noted Sept. 28.

STREETS AND ROADS

Proposed Work

Maine, Skowhegan—Plans made completing Jackman-Rockwood Rd. About $50,000. State Legislature to appropriate $22,500; Maine Central R.R., $10,000; Somerset County, $7,500. Address County Clk., Skowhegan.

Mass., Waltham—City plans to improve West Dale St. B. Brewer, City Engr.

R. I., Woonsocket—Council plans to pave East School St. and build 2 bridges. About $78,000. F. H. Mills, City Engr.

Conn., Danielson—City plans to pave portion Main St.

Conn., Derby—City plans to improve portion Derby Ave. V. B. Clark, City Engr.

Conn., Manchester—City plans to improve portion Main St

Conn., Rockville—City plans to spend $30,000 new sidewalks.

N. Y., East Rochester—City making plans, soon to vote on bonds for paving; asphaltic macadam or amiesite. About $20,000. R. E. Gaskin, Triangle Bldg., Rochester, Engr.

N. Y., Lockport—Niagara County plans road from Orleans to Niagara. Address County Clk., Lockport.

N. Y., Rochester—Council adopted ordinances to improve portions Ethel St., $4,300; Woodbine Ave., $9,500; Orange St., $24,000; Augustine St. outlet sewer, $7,500. F. T. Ellwood, City Engr.

N. J., Camden—Council plans 100-ft. wide boulevard on Baird Ave. from Forest Hill Park to 27th and Federal St. L. E. Farnham, City Engr.

N. J., Edgewater—See item under "Industrial Works."

N. J., Jersey City—Bd. Blvd. Comrs. rejected bids paving portion boulevard. New bids. C. A. Van Keuren, City Engr.

N. J., Passaic—Council passed ordinance to pave portion Grove St., macadam.

N. J., Wildwood—City receiving bids Jan. 1, cement curbs and gutters. About $20,000. Noted Aug. 17.

Penn., Conemaugh—Cambria County making plans grading and paving. About $50,000. Address County Clk., Ebensburch.

Penn., Mt. Penn—City making plans paving Perkiomen, Fairview, Carsonia Ave. and 23rd St. About $15,000. W H. Dechant & Son, Baer Bldg., Reading, Engr.

Penn., Nanticoke—City making plans paving portion Ridge St. D. Samuels, Engr.

Va., Franklin—City to issue $40,000 bonds to improve streets. W. A. Bristow, Finance Comr.

Va., Luray—Page County adopted resolution to issue $200,000 bonds to build road from Warren to Rockingham County, about 33 mi. Address Clk. Page County, Luray.

Va., Petersburg—See item under "Water-Works."

Va., Richmond—City plans improving portion Roseneath Rd. About $29,870. C. E. Bolling, City Engr.

Va., Salem—Roanoke County, Cave Spring Dist., election Jan. 16 to vote on $125,000 bonds to build 16.16 mi. road. C. D. Denit, County Clk. Noted June 29.

W. Va., Huntington—City receiving bids Dec. 22 paving portion 1st St. A. B. Maupin, City Engr. Noted Aug. 17.

W. Va., Parsons—Tucker County election Dec. 29 to vote on $308,000 bonds to build roads. Address County Clk., Parsons. Noted Sept. 28.

N. C., Mt. Holly—City election Dec. 19 to vote on $5,000 bonds to build sidewalks. W. T. Johnson, Clk.

N. C., New Berne—Craven County plans paving 4½ mi. Trent Rd. and 4½ mi. Vanceboro Rd., brick. Address County Clk., New Berne.

Ga., Statesboro—City to vote in February on bonds to pave streets. W. B. Johnson, City Clk.

Fla., Tampa—Hillsborough County, Wimauma Dist., soon votes on $22,500 bonds to extend Riverview Rd. Address County Clk., Tampa. Noted Nov. 16.

Fla., Tarpon Springs—City election soon to vote on $7,500 bonds to improve streets and parkways.

Ala., Montgomery—City plans to repave North Perry St., brick, asphalt, wood block or bitulithic. S. E. Washburn, City Engr. Noted June 8.

Ala., Moulton—Court Revenue Lawrence County receiving bids Jan. 8 macadam road from Courtland Township south to Landersville Rd., about 5 mi. J. C. Kump, Moulton, Judge Probate.

Ala., Talladega—Talladega County defeated $300,000 bonds to build roads. Noted Oct. 26.

Miss., Laurel—City plans to pave several streets. About $10,000.

Ky., Earlington—City voted $15,000 to improve streets. W. E. Rash, Mayor.

Ky., Jenkins—City plans to repave principal streets.

Ohio, Bexley—(Columbus post office)—Village making plans paving various streets, brick or concrete. Jennings, Lawrence & Lindsay, 509 Hartmand Bldg., Engr. Noted Nov. 30.

Ohio, Canton—Stark County Comrs. plan to spend $250,000 in 1917 for brick, macadam and monolithic paving on county roads. State aid will be obtained to improve Canton-Lisbon Rd.; also plan improving Canton-Canal Fulton Rd., Canton-Navarre Rd., Massillon-Canal Fulton Rd., Robertsville-Minerva Rd., Raff Rd., Harrisburg-New Baltimore Rd., Marlboro-Death Curve Rd., and Lawrence-Canal Fulton Rd. Address County Clk., Canton.

Ohio, Cincinnati—City plans improving Delta and Linwood Ave., granite, $31,414, and asphalt or bitulithic, $29,164. F. S. Krug, City Engr.

Ohio, Cleveland—Cuyahoga County Comrs. making plans widening portion Superior Ave. Address County Clk., Cleveland.

Ohio, Cleveland—City receives bids in January, paving and repaving number streets. About $2,500,000. R. Hoffman, City Engr. Noted Nov. 16

Ohio, Columbus—State Highway Comn., Columbus, receiving bids Dec. 21, highways in portions Brown, Butler, Clinton, Fayette, Hamilton, Harrison, Jefferson and Noble Counties. Clinton Cowen, State Highway Comr.

Ohio, Columbus—Council passed ordinance paving Hay, Fulton, Macon, Taylor, Bismark, Kenworth and Dupont St. H. Maetzel, City Engr.

Ohio, Cuyahoga Falls—City plans to pave North Hampton and Telmitch Ave. and Sackett and Newberry St.

Ohio, East Palestine—Columbiana County receiving bids Dec. 20 for sale of $42,000 bonds to improve Water Bd. and East Palestine Rds. Address County Clk., Lisbon.

Ohio, Hamilton—Butler County Comrs. soon to let contract paving Dixie Rd. F. M. Hammerle, Hamilton, County Engr. Noted Oct. 26.

Ohio, Lorain—Council passed ordinance paving portion 7th Court. C. M. Osborne, City Engr.

Ohio, Marion—Council adopted resolutions to pave portions Mary, Church, Senate and Vine St., South Grant, Washington, Bellefontaine and Hane Ave., 1st, 3rd, 4th and 5th alley south Church St., and 1st alley east Main St. E. S. Hoult, City Engr.

Ohio, Montpelier—City making plans improving streets. G. Champe, Toledo, Engr.

Ohio, New Bremen—City making plans paving Main, Franklin and Pearl St. Contract let in spring. G. Champ, Nasby Bldg., Toledo, Engr. Noted Dec. 7.

Ohio, Ravenna—City receiving bids Dec. 20, paving portion Lake Ave. W. H. Linton, City Engr. Noted Sept. 14.

Ohio, Salem—Bd. Pub. Ser. plans paving. B. M. French, City Engr.

Ohio, Springfield—Council passed ordinance paving portion High St. M. J. Bahin, City Engr.

Ohio, Washington—City soon receives bids sale $18,500 bonds to improve Paint St. B. R. Jacob, City Engr.

Ohio, Youngstown—Council passed ordinance to widen West Federal St. About $225,000. Noted Nov. 9.

Ind., Anderson—Madison County receiving bids Dec. 28 gravel or stone roads in Lafayette, Monroe and Green Township, 7 in all. E. T. Flahavin, Anderson, Audr.

Ind., Bloomfield—Green County receiving bids Jan. 2 macadamized roads in Washington and Richland Townships, 3 in all. G. E. Kidd, Bloomfield, Audr.

Ind., Brownstown—Jackson County receiving bids Jan. 1 tarvia-macadam road in Carr Township. A. Leudtke, Brownstown, Audr.

Ind., Corydon—Harrison County receiving bids Jan. 4 gravel or macadam road on line between Heth and Washington Townships. J. L. O'Bannon, Corydon, Audr. Noted Sept. 14.

Streets and Roads (Continued)

Ind., Corydon—Harrison County receiving bids Jan. 2 gravel or macadam road in Boone Township. J. L. O'Bannon, Corydon, Audr.

Ind., Greencastle—Putnam County receiving bids Jan. 1 roads in Madison, Monroe, Floyd, Jackson and Clinton Townships. J. M. Allen, Greencastle, Audr.

Ind., Greensburg—Decatur County receiving bids Jan. 1 roads in Washington, Clay and Jackson Townships. J. C. Barbe, Greensburg, Audr.

Ind., Greensburg—Decatur County receiving bids Jan. 1 concrete road in Adams Township. J. C. Barbe, Greensburg, Audr.

Ind., Greenfield—Hancock County making plans road improvements. Address County Clk., Greenfield.

Ind., Jeffersonville—Clark County receiving bids Jan. 2 crushed stone road in Charleston Township. G. W. Stoner, Jeffersonville, Audr.

Ind., Logansport—Cass County receiving bids Jan. 2 roads in Bethlehem and Washington Townships. A. P. Flynn, Logansport, Audr.

Ind., Portland—Jay County receiving bids Dec. 27 stone roads in Madison and Jackson Townships. J. Bonifas, Portland, Audr. Noted Apr. 13.

Ind., Rockport—Spencer County receiving bids Jan. 1 road in Ohio Township. J. F. Stocking, Rockport, Audr.

Ind., Spencer—Owen County receiving bids Dec. 30 crushed stone road in Harrison and Montgomery Townships. S. M. Royer, Spencer, Audr.

Ind., Vevay—Switzerland County receiving bids Jan. 2 road in Cotton Township. J. W. Smith, Vevay, Audr.

Mich., Houghton—Bd. Supervs., Houghton County, plans to spend $180,000 for road work in 1917. Address County Clk., Houghton.

Mich., Saginaw—Council to let contract in March paving portion Germania Ave., sheet asphalt. About $15,000. H. H. Eymer, City Engr. Noted Nov. 9.

Ill., Princeton—Bd. Local Impvts. plans 3-mi. paving in spring; also concrete gutters.

Ill., Springfield—City plans paving streets, creosoted block W. D. Seeley, City Engr.

Wis., Crandon—Forest County to sell $100,000 bonds to be used for repairing highways. C. G. Warnick, Crandon, Audr.

Wis., Dodgeville—Iowa County plans 200 mi. highways. R. W. Gribble, Dodgeville, Audr.

Wis., Eau Claire—Eau Claire County plans 110 mi. concrete roads. About $750,000. J. H. Nygaard, Audr. Noted Dec. 7.

Wis., Lancaster—Grant County plans new highways. E. E. McCoy, Lancaster, Audr.

Wis., Marinette—Marinette County plans to spend about $60,000 to build and repair roads. Address County Clk., Marinette.

Wis., Milwaukee—Bd. Superv. Milwaukee County plans to spend $350,000 for road work in 1917. Address County Clk., Milwaukee.

Wis., Monroe—Green County plans concrete road from city to county farm, about 3 mi. Address County Clk., Monroe.

Wis., Portage—(Official)—City making plans 40,000 sq.yd. paving, 23,000 lin.ft. curb and gutter, brick, concrete or bitulithic. H. V. Tennant, City Engr.

Wis., Richland Center—Richmond County plans election in spring to vote on $500,000 to build roads. W. A. Lawton, Richland Center, Audr.

Wis., Stevens Point—Portage County plans trunk line system highways. A. E. Bourn, Stevens Point, Audr.

Wis., West Allis—Act. Bd. Pub. Wks. receiving bids Dec. 30 improving portion George St. and all avenues between 60th and 67th Ave. E. G. Orbert, City Engr.

Wis., West Bend—Washington County election in spring to vote on $500,000 bonds to build roads. A. Thielman, West Bend, Audr. Noted Nov. 9.

Iowa, Ft. Dodge—Webster County plans to grade 30 mi. road in spring. J. L. Hanrahan, Ft. Dodge, Audr.

Iowa, Independence—City receiving bids Jan. 10, paving about 60 blocks, concrete. Noted Oct. 5.

Iowa, Storm Lake—Buena Vista County receiving bids Dec 20, grading 72 mi. highways. G. K. McCullough, Storm Lake, County Engr.

Minn., Crystal Springs—City plans to spend $20,000 for concrete sidewalks.

Kan., Ft. Scott—Auto Traffic Co. plans hard surface road from Ft. Scott to Pittsburgh, about 32 mi.

Kan., Liberal—City plans to pave business district.

Mo., Joplin—City plans to pave about 5 or 6 mi. streets. J. J. McAfee, City Engr.

Mo., Kansas City—City plans widening Gillham Rd. About $16,000. C. Hall, City Engr.

Mo., Springfield—City plans to spend $13,500 to pave 8,725 sq.yd. on St. Louis St. Bids in spring. O. D. Christman, City Engr.

Ark., Hot Springs—City to resurface Central Ave. About $25,000. G. C. Smith, City Engr.

Ark., Russellville—City votes in February on $140,000 bonds to build 23 mi. macadam highway from Russellville to Hector. H. W. Carter, Engr.

Ark., Walnut Ridge—Lawrence County plans road from Walnut Ridge to Rhea Bridge, about 18 mi. Address County Clk., Walnut Ridge.

Tex., Bonham—State Atty. General's Dept. approved plans of Fannin County to issue $135,000 bonds, Dist. No. 3; $35,000, Dist. No. 12; $25,000 Dist. No. 14. Proceeds to be used to build roads. Address County Clk., Bonham.

Tex., Brownwood—Brown County plans to issue $100,000 bonds to build roads. Address County Clk., Brownwood.

Tex., Burkburnett—City plans paving principal business streets from depot. W. D. Cline, Comr. City Hall.

Tex., Dallas—City plans to pave portions Leonard, 9th, Ann and Watt St. H. Moseley, City Engr.

Tex., Eastland—Eastland County election Dec. 30 to vote on $200,000 bonds to build roads Dist. No. 1 Address County Clk., Eastland. Noted Dec. 14.

Tex., El Paso—City election Dec. 19 to vote on $40,000 bonds to grade and improve streets and alleys. G. Espy, City Engr.

Tex., Houston—City soon receives b'ds paving portion Washington Ave. About $7,900 E. E. Sands, City Engr. Noted Aug. 31.

Tex., Houston—City plans to pave portion Harrisburg Blvd. E. E. Sands, City Engr.

Tex., McKinney—City soon lets contract 1½ mi. paving.

Tex., San Marcos—Hays County plans election Jan. 6 to vote on $75,000 bonds to build roads Buda Precinct. Address County Clk., San Marcos.

Tex., Stamford—Commercial Club plans to build and repair roads out of Stamford.

Okla., Arapahoe—Custer County election Jan. 15 to vote on $800,000 bonds to build 100 mi. roads to be part State Highway and Ozark Trails Systems. Address County Clk., Arapahoe. Noted Oct. 5.

Okla., Waurika—Jefferson County election Dec. 27 to vote on $27,000 bonds to improve roads. Address County Clk., Waurika.

Okla., Woodward—Woodward County voted $20,000 bonds to improve roads, Liberty Township. Address County Clk., Woodward.

Colo., Loveland—Larimer County plans to surface Greeley-Loveland Rd., part cost to be borne by State Highway Comn. Address County Clk, Ft. Collins.

N. M Albuquerque—City soon receives bids paving portion North 8th and West Central St. About $30,208. E. Ross, City Engr. Noted May 18.

Idaho, Driggs—Teton County plans election to vote on $50,000 bonds to build roads. Address County Clk., Driggs.

Idaho, Heyburn—Park Comrs. soon let contract scenic road into park from north. About $13,000.

Utah, Salt Lake City—Council passed ordinance to pave 8th East St. and 3rd South St., Dist. No. 27. S. Q. Cannon, City Engr.

Ore., Crater Lake—V. G. Steel, U. S. Comr. Crater Lake Park, plans campaign to raise $750,000 for highway about 70 mi. long. If amount is raised same will be used for grading and later plans will be started for paving. About $1,500,000.

Ore., Grants Pass—Josephine County plans to spend $39,916 for road and bridge work in 1917. Address County Clk., Grants Pass.

Ore., Ontario—City plans to resurface road from city to Snaker River Bridge.

Ore., Sheridan—City plans to spend $30,000 paving in spring.

Ore., Tillamook—Tillamook County plans to spend $170,000 to build roads. Address County Clk., Tillamook.

Calif., Beaumont—Riverside County to let contract in spring concrete highways. Address County Clk., Beaumont.

Calif., Calexico—City soon lets contract paving various streets. Noted Oct. 19.

Calif., Los Angeles—Bd. Supervs., Los Angeles County soon lets contract grading and constructing oiled macadam pavement and culverts in Ballona Ave., Main St. in and near El Segundo, Rd. Dist. No. 117; also concrete paving on Azusa Ave., Rd. Dist. No. 90. Address County Clk., Los Angeles.

Calif., Los Angeles—Bd. Superv. Los Angeles County, receiving bids Jan. 2 grading and paving 2.6 mi. Signal Hill Blvd., Panarama Dr., Temple Ave. and Catalina St., macadam, on Los Angeles-Long Beach line of Pacific Electric Ry., 13,700 cu.yd. excavation, 13,728 lin.ft. shaping roadbed, 14,222 lb. reinforcing steel, 7,519 tons disintegrated granite, 1,473 tons macadam, oil, etc. About $11,000. A. M. McPherrin, Los Angeles, Clk.

Calif., Sacramento—(Official)—State voted $15,000,000 bonds to improve highways. Noted Dec. 7.

Calif., San Jacinto—City voted $28,000 bonds to pave 3½ mi. streets.

Calif., Santa Barbara—City plans to improve East Blvd. A. B. Cook, City Engr.

Calif., Ventura—Ventura County receiving bids Dec. 15 paving Somis-Moorhead Park Rd., Div. 8, 7.42 mi. concrete, about 23,170 cu.yd. excavation, 39,187 lin.ft. shaping and rolling roadbed, 7,756 cu.yd. concrete in pavements, 196 cu.yd. concrete in culverts, etc. J. B. McCloskey, Ventura, Clk. Noted Dec. 7.

Calif., Yuba City—Comrs. Yuba County appropriated $5,000 repairing 2 mi. Wyandotte Rd. and 1 mi. Oroville-Bangor Rd. Address Clk., Yuba City.

Que., Lacolle—Provincial Dept. Pub. Wks. plans road from Lacolle to Knowlton. M. Lariviere, Engr.

Ont., Hamilton—See item under "Bridges."

Ont., Toronto—R. C. Harris, Wks. Comr., estimates cost paving portion Davenport Rd. at $30,329.

Bids In and Contracts Awarded

Conn., Hartford—(Official)—F. Valerio, Stamford, Conn., submitted low bid 23,257 ft. native stone macadam highway on Long Ridge Rd., Stamford Township. About $34,000. Noted Nov. 23.

Mass., New Bedford—(Official)—City to improve highways by day labor. G. N. Nye, City Engr. Noted Dec. 7.

N. Y., New York—(Richmond)—(Official)—J. E. Donovan, Port Richmond, at $8,754, low bidder improving portion Elliott Ave. Noted Nov. 30.

N. Y., Rochester—City let contract paving Owen St. to F. V. BROTSCH, about $6,301.

N. Y., Syracuse—City let contract paving portion Redfield Pl. to F. J. BAKER, $5,950; Taylor St., G. B. DICKINSON, $4,278.

N. J., Irvington—(Official)—City let contract paving, curbing and sewering portion Ellis Ave. to J. DORER, Irvington, about $23,694, for "Hastings Asphalt Blocks."

N. J., Jersey City—Hudson County Parental Bd. let contract road leading to Parental Home to McCABE BROS., 1205 Blvd., Bayonne, about $6,897.

Penn., Avandole—County let contract road New Garden Township to D. E. O'CONNELL & SONS, about $9,335.

Penn., Nanticoke—City let contract paving portion Main St. to CARADOC REES, 320 East Main St., Nanticoke.

W. Va., Keyser—Mineral County let contract roads New Creek Dist. to H. K. TAYLOR, Hagerstown. About $85,000. Noted July 6.

W. Va., Wheeling—County let contract 5-mi. road to BALL ENGINEERING CO., about $40,000.

N. C., Belhaven—City let contract 1½ mi sidewalks to W. S. McCRADY CO., Charleston, S. C. About $6,000 available.

Fla., Arcadia—City let contract paving to STIDHAM & HUGHES, Tampa, about $139,000; 116,000 ft. combined curb and gutter and 25,000 ft. header to FARGO CONSTRUCTION CO., Jacksonville, 40c. and 18c. respectively. Noted Nov. 30.

Fla., De Land—(Official)—City let contract 31,653 sq.yd. brick paving to WILSON CONSTRUCTION CO. and SOUTHERN CLAY MANUFACTURING CO., De Land; concrete curb, N. N. JACOBS. About $60,000.

Fla., Miami—County let contract extending 12th St., to connect with Tamiami Trail to J. W. WOOD.

Ala., Bay Minette—(Official)—Baldwin County let contract improving portion State Trunk Rd. No. 12 to J. G. BROWN, Montgomery, about $8,000. Noted Nov. 23.

Ala., Centerville—Bibb County let contract portion Centerville-Randolph Rd. to P. H. O'BRIEN, Birmingham. About $10,000. Noted Oct. 26.

Ala., Eutaw—(Official)—Green County let contract grading and draining State Trunk Rd. No. 7 to O'BRIEN CONSTRUCTION CO., Birmingham, $8,019. Noted Nov. 16.

Ala., Gadsden—City let contract paving portions 4th and 5th St. to J. F. MORGAN & CO., Gadsden, about $35,348; concrete work to C. O. DUNCAN, Gadsden, about $6,433. Noted Dec. 7.

Tenn., Benton—Polk County let contract highway over Appalachian Mts. to RILEY-RYAN CO., Chattanooga. About $62,500. Noted Apr. 27.

Tenn., Knoxville—City let contract paving Caswell St., Pruett Pl. and Circle Park to MURRAY CONSTRUCTION CO., Holston National Bank Bldg., about $20,000. Noted Dec. 7.

Tenn., Memphis—(Official)—Shelby County let contract earthwork 10 mi. gravel road across northeast corner De Soto County to F. D. HARVEY & CO., Memphis. Noted Nov. 23.

Ohio, Piqua—City let contract paving portion Washington Ave. to J. M. HENNESY & BROS.; curbing to ZEIGLER & SNYDER.

Ill., Springfield—Bd. Local Impvts. let contract paving portion Grand Blvd. to J. E. BRETZ.

Kan., Augusta—(Official)—City let contract paving State St. and 5th Ave. to C. L. BESLER CONSTRUCTION CO., Winfield, about $66,091. Noted Oct. 26.

Kan., Kansas City—Wyandotte County let contract paving 1 mi. Parallel Rd. to W. C. DODSON, 2136 Orville St., 39c. per yd. Noted Nov. 2.

Ohio, Steubenville—City rejected bids grading filtration plant grounds. Noted Nov. 23.

Ohio, Wapakoneta—State Highway Comn. let contract paving Wapakoneta St. to HOWELL & WENTZ.

Ind., Angola—Steuben and DeKalb Counties received no bids Dec. 5, county line road. Noted Nov. 16.

Ind., Decatur—City let contract paving to M. MILLER.

Streets and Roads (Continued)

Ind., Rensselaer—(Official)—Jasper County let contract road in Union Township to I. W. MONEYBUN & SON, Monticello, about $48,524. Noted Nov. 16.

Ind., Terre Haute—County let contract Stevens Rd to J. I. UNISON, Terre Haute, about $6,479. Noted Dec. 7.

Ill., Shelbyville—Shelby County let contract road work to D. E. MURPHY, Pana, about $14,900.

Tex., El Paso—City let contract paving portion West Blvd. and North Santa Fe St. to EL PASO BITULITHIC CO., El Paso.

Wash., Camas—(Official)—City received bids improving portion 4th St. from Warren Construction Co., Portland, $12,198; J. A. Shea, Portland, $12,851; United Contracting Co., Portland, $13,964. Noted Nov. 16.

Wash., Everett—Snohomish County let contract paving Bond Rd. No. 30 to M. O'DELL, 707 Security Bldg., about $107,000. Noted Dec. 7.

Calif., Bakersfield—City let contract paving portion 21st St. to CORFIELD & DAVIS, about $6,379.

Calif., Long Beach—City let contract paving portion 6th St. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., Los Angeles.

Calif., Los Angeles—City received bids improving portion 1st St. from Bryant & Austin; California-Arizona Construction Co., 1700 East Washington St.; Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg. Noted Nov. 23.

Calif., Los Angeles—City rejected bids improving 8th St. About $31,278. H. Hamlin, City Engr.

Calif., Los Angeles—City let contract improving Pembroke Lane to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., about $4,376.

Calif., Pasadena—T. C. Breitenstein, Pasadena, submitted low bid 50,700 sq.ft. concrete paving, Arden Rd., at 9.7c. sq.ft.

Calif., San Diego—City let contract paving portion Lewis St. and Ft. Stockton Dr. to FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., about $24,063. Noted Oct. 19.

Calif., San Francisco—Bd. Pub. Wks. let contract improving portion 34th Ave. to O. McHUGH, Russ Bldg., about $15,479.

Calif., San Francisco—City received bids improving Clayton St. from Federal Construction Co., $16,916, and Ransome-Crummey Co., $18,015.

Calif., San Francisco—City let contract paving several streets to MUNICIPAL IMPROVEMENT CO., about $12,634.

Calif., San Francisco—City let contract improving Mariposa St. to J. J. McHUGH, about $4,889.

Calif., Santa Barbara—City let contract improving portion Mission and Santa Barbara St. to MUNICIPAL IMPROVEMENT CO., about $12,634.

Calif., Santa Cruz—City let contract improving King St. to A. P. BRADY, Humboldt Bank Bldg., about $54,317.

Calif., Upland—City received low bid improving portion Mountain Ave. from Crown Construction Co., Culver City, about $26,000.

Calif., Ventura—(Official)—Ventura County let contract paving various bridges to FAIRCHILD-WILTON-GILMORE CO., Pacific Electric Bldg., Los Angeles, about $5,000. Noted Nov. 30.

Calif., Watts—City let contract paving portion Wall and Ann St. and Queen Ave. to E. S. CROSHONG, Box 222, Burbank, $6,311. Noted Dec. 7.

Calif., Whittier—City let contract paving Bright Ave. to MUNICIPAL IMPROVEMENT CO., 803 Macdonald Ave., Richmond.

INDUSTRIAL WORKS

Proposed Work

Vt., East Monkton—(Bristol post office)—Kaolin Works to rebuild plant destroyed by fire.

Mass., Boston—Whitman Real Estate Trust, 131 State St., making plans 3-story auto service station.

Mass., Chelsea—E. A. Rothwell, 39 Sudbury St., Boston, making plans 2 factory buildings.

Mass., Fall River—N. Yamins, 78 Bedford St., making plans 2-story public garage. About $25,000. Darling & Son, 56 North Main St., Arch.

Mass., Holyoke—Valley Paper Co. making revised plans 3-story, 60x227-ft. finishing mill, Pellissier & Dibble, 317 Main St., Springfield, Arch.

Mass., Lynn—Butman & Cressey Co. making plans storehouse. D. A. Sanborn, 38 Exchange St., Arch.

R. I., East Providence—Standard Oil Co. plans 2 tanks on Vanity Fair property.

Conn., Bridgeport—American Hardware Stores, Inc., acquired plant Lyon & Grumman Co., Fairfield Ave. and Middle St., and will build addition, also warehouse on Water St. E. F. Von Wettberg, Pres.

Conn., New Britain—Landers, Frary & Clark, Inc., plans 3-story, 73x238-ft. addition.

Conn., New London—United States Shipbuilding Co. plans plant on Thames River.

N. Y., Binghamton—Mollen Transfer Co., Erie R.R. Station, made plans 4-story, 50x125-ft. warehouse, 13-15 Warren St. About $50,000. Moores & Dunford, 10 South La Salle St., Chicago, Arch. Noted June 1.

N. Y., Buffalo—A. B. Schultz, 786 Ashland Ave., made preliminary plans 2-story motor factory. About $10,000.

N. Y., Catskill—Union Mills, Hudson, made plans 4-story addition to mill. About $30,000. C. Haug & Son, Main St., Little Falls, Arch.

N. Y., Elmira—G. W. Peck Co. plans 3-or 4-story warehouse on 7th St. in spring.

N. Y., New York—(Brooklyn)—(Official)—A. Smith, 4307 Broadway, receiving bids, 1-story, 125x150-ft. brick garage, 4352 Broadway. About $10,000. Hurwitz, Landsman & Bartos, Arch.

N. Y., New York—(Manhattan)—D. Levy, c/o H. Young, Arch., 32 Union Sq., making plans 8-story garage. About $75,000.

N. Y., Rochester—Vacuum Oil Co., 904 Exchange St., plans addition. About $15,000.

N. J., Millville—Whitall-Tatum Co. made plans glass factory.

N. J., Newark—Hagerstrom & Chapman Co. made plans 2-story factory at 9 Orchard St. About $10,000. W. J. Fitzsimmons, Arch.

N. J., Pennsgrove—E. I. duPont de Nemours Powder Co. purchased Fenton's Beach property for plant.

Penn., Lock Haven—Lock Haven Auto Co., 13-15 Corning St. plans new garage. About $20,000.

Penn., Marcus Hook—Headley Good Roads Co. making plans 2-story, 75x150-ft. factory and power house. S. Bent, 301 South 30th St., Philadelphia, Vice-Pres.

Penn., Midland—Pittsburgh Crucible Steel Co. plans additions. About $1,000,000.

Penn., Philadelphia (Germantown)—Atwater-Kent Manufacturing Co. plans plant, 2024-34 Russell St. About $100,000.

Penn., Philadelphia—L. H. Gilmer Co. made plans 2-story, 50x100-ft. factory, Keystone and Cottman St., Tacony. About $30,000. H. G. Eisenbise, Penn Bldg., Arch.

Penn., Philadelphia—Windsor Chocolate Co. making preliminary plans 3-story, 80x116-ft. addition. E. M. Dobeller, 24th and Hamilton St., Secy. W. Steel & Son, 1600 Arch St., Arch. Noted Nov. 30.

Penn., Pittsburgh—Electro Pneumatic Gear Shift Corp., recently organized, plans plant. M. F. Metcalf, Pittsburgh, Pres.

Penn., Pittsburgh—Iron City Electric Co., 711 New Grant St., purchased site, Grant Blvd. and Bedford Ave., warehouse and store building.

Penn., Pittsburgh—Jackson Motor Supply Co. plans 3-story plant, Baum Blvd., South Negley Ave. and Roup St., East End.

Penn., Pittsburgh—E. E. Reick Co. granted permit addition, Forbes St. About $51,000.

Penn., Pittsburgh—X. & W. Wittmer granted permit 3-story garage, 5738 Baum Blvd. About $38,000.

Penn., Williamsport—Cheesman & Elliott, 100 William St., New York, plans factory and storage building on East St.

Md., Baltimore—Baltimore Storage Co. making plans warehouse. About $10,000. Wyatt & Notling, Keyser Bldg., Arch.

Md., Baltimore—Pompeian Co., Coca-Cola Bldg., plans storage warehouse. About $50,000 or $100,000. A. Musher, Pres.

Md., Elkton—Jessup & Moore Paper Co. plans bleach mill. About $500,000.

Va., Hampton—Newcomb Boat Building Co. plans new plant on Sunset Creek. J. H. Hesey, Scotland Neck, N. C., Gen. Mgr.

Va., Lynchburg—M. R. Scott, 709 5th Ave., making plans 2-story, 90x160-ft. abbatoir. About $20,000. Heard, Cardwell & Craighead, Peoples Bank Bldg., Arch.

Va., Martinsville—H. A. Ford & Co. plans cold-storage and ice plant. About $35,000. Pritchard & Henderson, Dudley Bldg., Danville, Arch.

Va., Portsmouth—Two States Package Co. made plans veneer manufacturing plant on Belt Line R.R. E. Potter, Pen Yann, N. Y., Pres. W. N. Diehl, Chamberlaine Bldg., Norwalk, Arch.

W. Va., Parkersburg—Standard Oil Co. plans to improve plant in East End. About $125,000 or $150,000.

W. Va., Wheeling—Wheeling Corrugating Co., Arthington St. and Campbell Ave., granted permit warehouse. About $200,000. Noted Sept. 23.

N. C., Gastonia—Mutual Mills Co., recently organized with $200,000 capital stock, plans mill. C. B. Armstrong interested.

La., New Orleans—Linde Air Products Co., Forty-Second St. Bldg., New York, plans plant in New Orleans.

La., New Orleans—Richardson Aëroplane Corp., organized with $500,000 capital stock, plans plant. F. T. Richardson, Pres.

Tenn., Memphis—Orgill Bros. & Co. plans to enlarge plant. F. Orgill, Pres.

Ky., Louisville—Martha Washington Candy Co. plans factory. C. L. Braucher, Cincinnati, interested.

Ohio, Akron—Northern Ohio Traction and Light Co. received bids about Jan. 1, 1- and 5-story warehouse and electric packing station. About $100,000. F. C. Warner, 718 Hippodrome Bldg., Cleveland, Arch. Noted July 13.

Ohio, Cincinnati—Crown Overall Co. plans plant, 3rd and Plum St. About $250,000.

Ohio, Cincinnati—Kroger Grocery and Baking Co. plans 10-story warehouse, Florence Ave. B. H. Kroger, Pres.

Ohio, Cincinnati—Sextro Manufacturing Co., 6th St. near Freeman Ave., plans plant on Winchell Ave., 6-story, 50x200-ft.

Ohio, Cleveland—Brandt Co., Sheriff St., plans 6-story warehouse, Ontario St. About $300,000.

Ohio, Cleveland—S. W. Emerson Co., 1041 Engineers Bldg., plans warehouse, 3304 Carnegie Ave.

Ohio, Columbus—Fireproof Warehouse and Storage Co., 1018-32 North High St., plans 4- or 5-story warehouse in spring. About $30,000. M. Peterman, Gobey Bldg., Arch.

Ohio, New Philadelphia—Ladel Manufacturing Co., recently incorporated with $50,000 capital stock, plans foundry and machine shop; main building to be 150x250 ft.

Ohio, Norwalk—Maple City Ice Co. made plans 1-story plant. About $25,000.

Ohio, Toledo—United Food Products Co., 1101 Brown Ave., plans addition. About $15,900.

Ohio, Warren—C. G., I. A., C. R. Thomas and C. H. Lewis, former owners Western Reserve Steel Co., plan new plant at Warren.

Ind., Muncie—Whitely Malleable Castings Co. to rebuild factory destroyed by fire with loss of $250,000.

Ind., Richmond—Atlas Underwear Co. plans addition.

Mich., Bay City—F. H. Cash Co., Inc., 15th and Water St., purchased site in Water St. for 2-story plant.

Mich., Detroit—P. Esper granted permit, factory on Ferndale St. About $14,000. O. C. Gottesleben, 2224 Dime Bank Bldg., Arch.

Mich., Detroit—Gabriel Reinforcement Co., 1023 Penobscot Bldg., granted permit brick factory, 589-601 Bellevue Ave. About $18,000.

Mich., Detroit—Michigan Wire Cloth Co., 500 Howard St., granted permit factory, 113 Wabash St. About $30,000.

Mich., Detroit—R. O'Neill, 227 LeMay Ave., granted permit factory on East Blvd. About $18,000. R. H. Marr, 1204-6 Kresge Bldg., Arch.

Mich., Grand Haven—Eagle-Ottawa Leather Co. making plans enlarging plant. B. E. Parks & Son, Engr.

Mich., Grand Rapids—Grand Rapids Piano Case Co., Godfrey Ave., S. S., made plans 2 additions. Wernette-Bradfield-Mead Co., Arch.

Mich., Lansing—Duplex Truck Co., recently organized with $1,000,000 capital stock, has taken over plant of Duplex Power Car Co., of Charlotte, and will remove business to Lansing, where new plant will be constructed. H. M. Lee, Pres. and Gen. Mgr.

Ill., Bloomington—Corn Belt Creamery Co. plans plant.

Ill., Chicago—Chicago Flexible Shaft Co., 608 North La Salle St., making plans factory, 56th Ave. and 12th St. About $180,000. S. N. Crowen, 30 North La Salle St., Arch.

Ill., Chicago—Chicago Steel and Wire Co., 1123 West 37th St., purchased site 103rd St. and Torrence Ave., plant. About $40,000.

Ill., Chicago—W. D. Gibson Spring Co., Huron and Kingsbury St., purchased site, Clybourn Ave. and Willow St., new plant.

Ill., Waukegan—Northern Brass Manufacturing Co. making plans addition to plant, Madison St.

Ill., Waukegan—Standard Oil Co., Clayton and Spring St., plans plant. About $60,000 or $70,000.

Wis., Beach—Muscoda post office)—Chicago & Northwestern Ry. plans roundhouse. W. H. Finley, Jackson Blvd. and Franklin St., Chicago, Ch. Engr.

Wis., Milwaukee—Progressive Metal Co., Barclay and Washington St., plans 2-story, 40x160-ft. addition.

Wis., Milwaukee—Rundle Manufacturing Co., 27th and Wahl St., plans addition.

Wis., Milwaukee—Stegeman Motor Car Co., 606 Linus St., plans 79x190-ft. addition. About $30,000.

Wis., Milwaukee—Wollaeger Manufacturing Co., 28 Juneau Ave., to rebuild factory destroyed by fire. About $15,000.

Minn., Minneapolis—G. A. Clark & Son, 225 3rd St., N., plans warehouse and office building, 3rd St. and 9th Ave. About $100,000.

Minn., Minneapolis—Skellet & Co., 201 South 5th St., plans 10-story warehouse, 251 6th Ave., S. About $150,000.

Minn., St. Paul—Griffin Wheel Co., Phalen and Stillwater Ave., plans addition. About $100,000.

Kan., Argentine—Sinclair Oil Corp., Kansas City, purchased site, refinery and tank car repair shops. F. H. Sinclair, Pres.

Kan., Great Bend—Atchison, Topeka & Santa Fe Ry. to enlarge yards and build new roundhouse. C. F. W. Felt, Chicago, Ch. Engr.

Neb., Columbus—Klaws Canning Co. plans factory. About $25,000.

Neb., Omaha—Paxton & Gallagher Co., wholesale grocers, plans 7- or 8-story addition. C. H. Pickens, Gen. Mgr.

Industrial Works (Continued)

Neb., Omaha—Waterloo Creamery Co. made plans plant, 16th and Pierce St. About $125,000. C. A. Berger, Minneapolis, Arch. Noted Nov. 23.

N. D., Grand Forks—Northern Packing Co. receives bids about Feb. 1, packing plant. About $200,000. Gardner & Lindberg, 140 South Dearborn St., Chicago, Arch.

Wyo., Worland—Wyoming Sugar Co. plans plant in Big Horn Valley. About $1,000,000. J. Eccles, Ogden, Utah, and G. S. Crosby, Billings, Mont., interested.

Mo., Joplin—J. W. McAllister, Marceline, plans 2-story brick creamery. About $10,000.

Mo., Kansas City—H. D. Lee Mercantile Co., Salina, Kan., plans 3-story, 117x140-ft. warehouse.

Mo., Kansas City—North American Oil and Refining Corp. plans plant in Sheffield Blue Valley Dist. About $100,000.

Mo., Oak Hill—(St. Louis post office)—L. D. LeGear Medicine Co., 713 Howard St., plans new plant between Beck and Tholozan Ave.

Mo., St. Louis—St. Louis Independent Packing Co., 3857 Chouteau Ave., plans 2-story cooperage factory. About $25,000 or $50,000. H. Karuse, 3857 Chouteau Ave., Arch.

Ark., Ft. Smith—Ft. Smith Glass and Mirrors Co. making plans 1-story, 50x300-ft. plant. About $10,000. A. Klingenschmidt, Arch.

Tex., Houston—Linde Air Products Co., Forty-Second St. Bldg., New York, plans plant in Houston.

Tex., Houston—Texas Farmers Union plans mammoth warehouse on Houston ship channel. H. N. Pope, Pres.

Tex., Sherman—G. B. R. Smith Milling Co. plans 6-story, 40x100-ft., rein.-con. plant on East Lamar St. About $125,000.

Colo., Morrison—(Mt. Morrison post office)—Great Western Portland Cement Co., Denver, plans plant near Morrison. About $750,000. C. Boettcher, Pres., Denver & Salt Lake R.R., interested.

Utah, Ogden—Smith Bedding Co., East Canyon Rd., to rebuild plant destroyed by fire with loss of $35,000.

Wash., Port Angeles—Whalen Bros., Mills Creek, B. C., and J. Tyson, Pres., Puget Sound Mills and Timber Co., Port Angeles, plans sulphide paper plant on Ediz Hook. About $750,000.

Wash., Tacoma—Carstens Packing Co. to rebuild plant destroyed by fire with loss of $200,000.

Wash., Tacoma—Washington Shipbuilding Co., recently incorporated with $500,000 capital stock, plans plant. About $300,000. W. G. Hellar and W. Jones, Tacoma, interested.

Wash., Wenatchee—Earl Fruit Co. plans warehouse. J. DiGiorgio, Pres.

Ore., McMinnville—McMinnville Products Co., recently incorporated with $50,000 capital stock, plans canning plant. G. W. Evans and W. T. Macy interested.

Ore., Portland—Chevrolet Motor Co. of Michigan plans assembling plant and factory on Savier St. About $100,000.

Ore., Whitney—Hillgard Lumber Co. to rebuild sawmill destroyed by fire with loss of $20,000.

Calif., Huntington Park—Warman Steel Casting Co., 650 South Los Angeles St., Los Angeles, making plans new plant. About $100,000. Peoples & Chaney, 912 Haas Bldg., Los Angeles, Arch. Noted Nov. 23.

Calif., Los Angeles—Arrowhead Spring Co. making plans, bottling plant, Washington St. and Compton Ave. About $150,000. F. W. Handschy, Mgr.

Calif., Redding—Phœnix Steam Laundry plans 1-story addition. About $15,000. I. J. Johnson, Secy.

Calif., San Bernardino—Atchison, Topeka & Santa Fe Ry. to rebuild shops and terminal destroyed by fire. About $750,000. C. F. W. Felt, Railway Exchange Bldg., Chicago, Ch. Engr.

Ont., Port Arthur—A. G. McIntyre, Toronto and Montreal, plans pulp mill, Bare Point. About $1,000,000.

Bids In and Contracts Awarded

Mass., Fall River—Fall River Laundry Co., 112 Hartwell St., let contract addition to BEATTIE & CORNELL, 33 North Quarry St. About $11,000.

Mass., Medford—T. L. Codiger let contract garage to J. H. BRODERICK, about $55,000.

Mass., Rockland—Emerson Shoe Co. let contract factory to G. HOWARD & SONS CO., 633 Warren Ave., Brockton, about $40,000.

Mass., Springfield—W. Carter Co., Morris St., let contract 3-story addition to E. T. DAVIS & SON, Springfield.

N. Y., Buffalo—United States Alloys Co., Inc., 150 Nassau St., New York, let contract manufacturing plant to LACKAWANNA BRIDGE CO., Bell and Abbey St., Buffalo. About $200,000. Noted Nov. 23.

N. Y., New York—(Brooklyn)—A. Aaron, Inc., 335 Johnson Ave., let contract alterations and additions to abbatoir to C. E. WARD, 417 East 34th St., Manhattan.

N. Y., New York—(Manhattan)—R. J. Hahn and W. Lang, 148 East 83rd St., let contract garage to STANDARD CONCRETE STEEL CO., 413 East 31st St. About $45,000. Noted Sept 28.

N. Y., New York—(Borough of Queens)—(Glendale)—Glendale Ice Consumers' Co., c/o H. Burkhardt, 246 St. Nicholas Ave., Brooklyn, let contract plant to W. HAFNER, Glendale. About $30,000.

N. Y., New York—(Borough of Queens)—Oakes Manufacturing Co., Steinway, Long Island City, let contract 2-story, 32x200-ft. factory to TURNER CONSTRUCTION CO., 11 Broadway, Manhattan.

N. J., Camden—Victor Talking Machine Co. let contract kiln building to IRWIN & LEIGHTON, 126 North 12th St., Philadelphia. About $200,000. Noted Nov. 2.

N. J., Edgewater—(Official)—General Chemical Co. let contract garage, also paving roadway, to STEWART ENGINEERING CORPORATION, 17 Battery Pl., New York.

N. J., Jersey City—Davis-Bourneville Co. let contract 2-story addition to J. N. GILL & CO., 1215 Filbert St., Philadelphia.

N. J., Newark—C. Burroughs, 141 Commerce St., let contract machine shop to E. M. WALDRON, INC., 207 Market St. About $17,000.

N. J., Paterson—Paterson Industrial Development Co., Chamber of Commerce, let contract 4-story, 75x275-ft. factory on Gray St. to CRAMP & CO., 25 East 26th St., New York. About $145,000. Noted Nov. 30.

Penn., Chester—Consumers' Ice and Coal Storage Co. let contract warehouse to FREUND CONSTRUCTION CO., Bulletin Bldg., Philadelphia. about $35,000. Noted Aug. 17.

Penn., Chester—Sun Shipbuilding Co. let contract 5 buildings at plant to BARCLAY, WHITE & CO., 1530 Chestnut St., Philadelphia. About $120,000.

Penn., Philadelphia—(Bridesburg)—Abrasive Materials Co. let contract crushing plant to J. R. WIGGINS & CO., Heed Bldg., about $10,000. Noted Nov. 30.

Penn., Philadelphia—Supplee Alderney Dairy Co., 1118 Jefferson St., let contract 3-story addition to J. N. GILL & CO., 1215 Filbert S., about $27,000. Noted Nov. 30.

Penn., Pittsburgh—(Official)—D. L. Clark Candy Co. let contract addition to FABER ENGINEERING AND CONSTRUCTION CO., Bessemer Bldg., Pittsburgh. About $50,000. Noted Oct. 12.

Penn., Pittsburgh—Standard Sanitary Manufacturing Co. let contract 3 enameling furnaces to FABER ENGINEERING AND CONSTRUCTION CO., Bessemer Bldg.

Penn., Williamsport—Standard Wood Pipe Co., foot Rose St., let contract factory to HARMON BROS., Center Pl. and South St. About $15,000. Noted Nov. 23.

Penn., Williamsport—Williamsport Wire Rope Co. let contract addition to J. GEHRON, 1329 Ann St. About $70,000. Noted July 20.

Md., Sparrows Point—Bethlehem Steel Co. let contract improvements and additions to IRWIN & LEIGHTON, 126 North 12th St., Philadelphia. About $2,000,000. Noted Nov. 30.

W. Va., Cabin Creek—(Coalburg post office)—Cabin Creek Refining Co., controlled by Ohio Cities Gas Co., Columbus, let contract plant to PUTNAM & FOREMAN, about $200,000. Noted Dec. 7.

W. Va., Huntington—Peerless Overall Co., 20th St. and 2nd Ave., let contract factory to H. SMITH, 319 R. & P. Bldg. About $25,000. Noted Jan. 13.

W. Va., Wheeling—Whitaker-Glessner Co. let contract factory on Wetzel St. to FOUNDATION AND RIVERSIDE BRIDGE CO. About $200,000.

N. C., Leaksville—Iron City Bed Spread Mill and Thread Mills Co. let contract mill to J. A. JONES, Leaksville. About $200,000. Noted June 29.

Ohio, Bellefontaine—Summit Milk Co., Logan House Blk., let contract creamery to F. L. HUTCHINGS. About $10,000. Noted Nov. 9.

Ohio, Cleveland—Cleveland Twist Drill Co., Lakeside Ave. and East 49th St., let contract addition to NIXON & CASSIDY CO., about $18,000. Noted Dec. 7.

Ohio, Cleveland—Elwell-Parker Electric Co., 4220 Hamilton Ave., let contract addition to BOLDT-LOW CONSTRUCTION CO., 1108 Swetland Bldg. About $30,000. Noted Dec. 7.

Ohio, Cleveland—Globe Machine and Stamping Co., 1230 West 76th St., let contract warehouse to H. G. SLATMEYER CONSTRUCTION CO., 203 Lakeside Ave. About $15,000.

Ohio, Cleveland—Lamson-Sessions Co., 2188 Scranton Rd., let contract additions to BOLDT-LOW CONSTRUCTION CO., 1108 Swetland Bldg., about $32,000. Noted Dec. 7.

Ohio, Cleveland—Willard Storage Battery Co. let contract factory, 280 East 131st St., to G. W. FEAGA CONSTRUCTION CO., Citizens Bldg., about $85,000. Noted Oct. 12.

Ohio, Toledo—Grasser Motor Co., 1101 Madison Ave., let contract salesroom and service station to H. J. SPIEKER CO., 409 Michigan Ave. About $50,000. Noted Aug. 24.

Ind., Evansville—Evansville Packing Co. let contract cold-storage plant to SCARBOROUGH-DAVIES CO., Evansville. Noted Sept. 16.

Mich., Detroit—General Motors Corporation of Delaware let contract 200x729-ft. building, Holbrook Ave. and Dequindre St., to W. E. WOOD CO.

Mich., Marquette—Piqua Handle Manufacturing Co. to build 2-story, 65x325-ft. factory by day labor. Wernette, Bradfield & Mead, Houseman Bldg., Grand Rapids, Mich., Arch. Noted Aug. 3.

Ill., Averyville—(Peoria post office)—Illinois Paper Mill let contract 2-story addition to W. M. ALLEN & SONS, Peoria.

Ill., Chicago—Chicago Tuberculosis Institution, 8 South Dearborn St., let contract laundry and boiler house, Crawford and Bryn Mawr Ave., to W. ADAMS CO., 209 South La Salle St. About $35,000.

Ill., Chicago—J. S. Kirk Co. let contract factory, 1601-19 Fleetwood Ave., to G. A. FULLER CO., 140 South Dearborn St. About $750,000. Noted Aug. 31.

Ill., Chicago—A. Schwin Co., 1718 North Kildare Ave., let contract factory to MENKE-THIELBERG CO., Park Ave. and South Wood St., about $15,000.

Ill., Chicago—Stromberg Motor Service Co., 66 East 25th St., let contract 6-story factory to G. THOMSON & SON CO., 30 North La Salle St. About $65,000.

Ill., Chicago—United States Brewing Co., First National Bank Bldg., let contract plant to SCOWN BUILDING CO., 1357 Cortland St. About $75,000.

Ill., Chicago—Zeitler-Lamson Truck Co., 1638 West Madison St., let contract addition to E. C. CLAYSON, 1307 North Harding Ave. About $15,000.

Ill., DeKalb—Natures Rival Co., 1028 West Van Buren St., let contract factory to JENSEN & STEENHILL, 105 South Dearborn St., Chicago. About $15,000. Noted Sept. 28.

Ill., Kankakee—West Kankakee Stove Co. let contract addition to SUMNER-SOLLITT CONSTRUCTION CO., Pullman Bldg., about $90,000.

Ill., Peoria—Nichols & Shepard Co., 419 North Water St., let contract warehouse and office building to F. HARBERS & SONS, 900 Fisher St. About $40,000.

Wis., Delavan—Bradley Knitting Co. let contract addition to C. B. DANIELSON, 638 Mineral St., Milwaukee, about $15,000. Noted Nov. 16.

Wis., Green Bay—Green Bay & Western R.R. let contract grain elevator to BURRELL ENGINEERING AND CONSTRUCTION CO., 323 South La Salle St.

Wis., Milwaukee—J. M. Riebs, 409 Mitchell Bldg., let contract new flour mill to F. LUENZMANN CO., 1912 Prairie St.

Wis., Wausau—Marathon County let contract slaughter house and cold-storage plant to F. KRAUSE, 1018 3rd St.

Iowa, Des Moines—Ford Motor Co., Detroit, let contract plant, 18th St. and Grand Ave., to J. C. MARDIS CO., Des Moines. About $600,000. Noted Aug. 17.

Minn., Anoka—Federal Cartridge and Machinery Co., Inc., let contract factory to J. H. BROWN CO., 511 South 3rd St., Minneapolis. About $20,000. Noted Oct. 5.

Minn., Duluth—Bridgman & Russell Co. let contract creamery, West Michigan St. to FARNUM BROS., Minneapolis, about $215,000. Noted Sept. 14.

Minn., Duluth—Fountain Faucet Co., 61st Ave., let contract factory to BERQUIS BROS., about $14,000. Noted Dec. 7.

Minn., Minneapolis—Maxwell Motor Sales Co., Detroit, let contract assembling plant to HAGLIN STAR CO., Lumber Exchange. About $250,000.

Minn., Minneapolis—C. I. Morey, 1904 North Washington Ave., let contract garage to CARLSTED BROS., 300 North 20th Ave. About $25,000.

Minn., St. Paul—Tri State Land Co., Soo Bldg., let contract warehouse to T. C. VANDANAKER, 1122 Merchants National Bank Bldg. About $125,000. Noted Oct. 19.

Minn., Warren—Warren Machine and Iron Works let contract addition, Fletcher Ave. and Minnesota St., to G. EKBLAD.

Kan., Hutchinson—Four S Razor Co. let contract factory on Ave. A to M. C. FOY CONSTRUCTION CO., about $30,000. Noted Nov. 23.

Kan., Wichita—Mid Continent Tire Manufacturing Co. let contract plant to G. H. SEIDHOFF CONSTRUCTION CO., 392 Finance Bldg., Kansas City, Mo. About $60,000. Noted Apr. 13.

Neb., Omaha—D. D. Rullman, c/o Commercial Club, let contract factory, 29th St. and Belt Line R.R., to G. RUNDBERG, 615 Paxton Blk. About $10,000. Noted Dec. 7.

N. D., Carrington—Standard Oil Co. let contract distributing plant to W. H. CARSON, New Rockford. About $50,000.

Okla., Guthrie—Atchison, Topeka & Santa Fe Ry. let contract roundhouse to NELSON CO., 614 South Michigan St., Chicago.

Okla., Muskogee—Missouri, Kansas & Texas Ry. let contract shops and roundhouse to J. J. RUNNEY. About $160,000. Noted Oct. 12.

Utah, Ogden—Western Foundry and Machine Co., Lincoln Ave. and 23rd St., let contract plant to JACKSON & LEVEDAHL, about $10,000.

Calif., Los Angeles—Los Angeles Union Terminal Co. let contract first unit terminal, 7th St. and Central Ave., to WURSTER CONSTRUCTION CO., Los Angeles. About $2,500,000. Noted Aug. 24.

FEDERAL GOVERNMENT WORK

Proposed Work

R. I., Newport—Buildings—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Dec. 26, 3 buildings at Naval Hospital. Noted Nov. 16.

N. J., East Orange—Post Office—J. A. Wetmore, Act. Superv. Arch., Terasury Dept., Washington, D. C., rejected bids. New bids. Noted Dec. 7.

Del., Wilmington—Excavation—U. S. Engr. Office, Wilmington, receiving bids Dec. 29, excavating inland waterway between Rehoboth Bay and Delaware Bay, Lewes Canal, Del.

D. C., Washington—Gears—Dept. Interior, U. S. Rec. Ser., Washington, receiving bids Dec. 26, 9 pairs c.-i. skew bevel gears for gate stands, Rio Grande Project, New Mexico-Texas.

Tenn., Memphis—Barges—U. S. Engr. Office, Memphis, receiving bids Dec. 21, 3 steel sand barges, Nos. 1601 to 1603. (See adv.)

Mich., Detroit—Boilers—Lighthouse Inspector, Detroit, receiving bids Dec. 26 for Lighthouse Tender "Marigold."

S. D., Rosebud—Buildings—Dept. of Interior, Office Indian Affairs, Washington, D. C., rejected bids, Rosebud School. New bids. Noted Oct. 26.

Calif., San Francisco—Dredging—U. S. Engr. Office, Custom House, San Francisco, receiving bids Dec. 27, Oakland Harbor, Calif.

Calif., Vallejo—Cranes—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Dec. 16, 2 fitting-out cranes at Navy Yard, Mare Island, Calif. Noted Nov. 30.

Panama—Miscellaneous Supplies—Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Dec. 18, Circular No. 2093.

Panama—Miscellaneous— Gen. Pur. Officer, Panama Canal, Washington, D. C., receiving bids Dec. 27, Circular No. 1106.

Alaska, Juneau—Alaska Rd. Comn., Valdez, has $750,000 available road work in 1917. Plans include steel bridge over channel between Douglas Island and Juneau, 3 units each costing $100,000. J. C. Mahaffy, Engr.

Bids In and Contracts Awarded

R. I., Melville—Torpedo Storehouse—Bureau Yards and Docks, Navy Dept., Washington, D. C., let contract, Naval Station, to MILLIKEN BROS., 111 Broadway, New York, $13,665. Noted Nov. 16.

Conn., Rockville—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., let contract to WESTCHESTER ENGINEERING CO., White Plains, N. Y., $45,913. Noted Nov. 30.

N. Y., New York—Crane—Bureau Yards and Docks, Navy Dept., let contract 20-ton locomotive crane, Navy Yard, to INDUSTRIAL WORKS, Bay City, Mich., $11,500. Noted Nov. 9.

N. Y., New York—Dredging—Bureau Yards and Docks, Navy Dept., rejected bids, in connection with Navy Yard. Noted Nov. 16.

N. Y., New York—Dredging—U. S. Engr. Office, Army Bldg., New York, received low bid Nov. 28, in Newtown Creek, from Morris & Cumings Dredging Co., 17 State St., New York, 55c. cu.yd. Noted Nov. 16.

N. Y., New York—Dredging—U. S. Engr. Office, Army Bldg., let contract, Hudson River Channel, to E. BERGMAN, Boston, Mass., $370,562. Noted Dec. 7.

N. Y., Tompkinsville—Bell Buoys—Lighthouse Inspector, 3rd Dist., Tompkinsville, let contract 8 bell buoys to UNION BOILER AND MANUFACTURING CO., $5,000.

Penn., Philadelphia—Dredging—U. S. Engr. Office, Philadelphia, let contract dredging Delaware River, Philadelphia Harbor, Sects. A and B, to RICKARD DREDGING CO., Real Estate Trust Bldg., Philadelphia, $16,852. Noted Nov. 9.

Penn., Philadelphia—Dredging—U. S. Engr. Office, Philadelphia, let contract dredging Delaware River, Philadelphia Harbor, Sects. K, L and M, to AMERICAN DREDGING CO., Marine and Mercantile Bldg., Philadelphia, $717,750. Noted Nov. 23.

Penn., Philadelphia—Dredging and Excavation—U. S. Engr. Office, Philadelphia, let contract, Delaware River, Philadelphia Harbor, to GREAT LAKES DREDGE AND DOCK CO., 17 Battery Pl., New York, $760,500.

Va., Norfolk—Buildings—Bureau Yards and Docks, Navy Dept., let contract student officers' quarters, Navy Yard, to J. H. NOLAN CONSTRUCTION CO., Munsey Bldg., Washington, $42,120. Noted Nov. 23.

Va., Norfolk—Dredging—U. S. Engr. Office, Norfolk, let contract, from Norfolk to Beaufort Inlet, N. C., to ATLANTIC GULF AND PACIFIC CO., 13 Park Row, New York, $720,000. Noted Oct. 19.

W. Va., Wheeling—Steel, Castings, Etc.—U. S. Engr. Office, Wheeling, let contract metal work for Dams Nos. 23, 25 and 27, Ohio River to INDEPENDENT BRIDGE CO., 829 Beaver St., Pittsburgh, Penn.; TROLLEY & FORGE CO., J. & J. B. MILHOLLAND CO., 714 5th Ave., Pittsburgh; S. B. HARDING CO. Noted Nov. 23.

N. C., Newbern—Motor Dredge—U. S. Engr. Office, Wilmington, N. C., received low bids Dec. 1 from New York Yatchet L. & E. Co., Morris Heights, N. Y., $13,975; E. H. & J. A Meadows Co., Newbern, $11,270; Great Lalkes Boat Building Corporation, Milwaukee, Wis., $16,239.

S. C., Charleston—Buildings—Bureau Yards and Docks, Navy Dept., Washington, D. C., received low bids Dec. 4, radio buildings, tower and masts at Navy Yard, from Simmons—Mayrant Co., Charleston, $19,873; Charleston Engineering and Contracting Co., Charleston, $22,289; Newport Contracting and Engineering Co., Newport News, Va., $20,614 Noted Nov. 23.

La., New Orleans—Levee Work—U. S. Engr. Office, New Orleans, let contract Lafourche Levee, Wildswood, to O. O. OGDEN, Baton Rouge, $46,751. Upper and Lower Avondale bids rejected. Noted Nov. 16.

La., New Orleans—Projectile Hoists—U. S. Engr. Office, New Orleans, let contract to G. F. MOTTERS' SONS, York, Penn., $6,540.

La., New Orleans—Repairs—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., let contract Quarantine Station to L. E. ALEXANDER, New Orleans, $12,300.

Ky., Louisville—Lock Gates—U. S. Engr. Office let contract upper and lower mitering lock gates for Lock No. 41, Ohio River, to INDEPENDENT BRIDGE CO. OF PITTSBURGH, 829 Beaver Ave., Pittsburgh, $116,593. Noted Oct. 12.

Ill., Rockland—Dams and Shore Protections—U. S. Engr. Office, Post Office Bldg., let contracts constructing and repairing, (a) between Bellevue and Sabula, (b) Beattys Crossing and Keithsburg, Ill., (c) Quincy, Ill., and Hannibal, Mo., and Hamburg, Ill., (d) Hamburg and Grafton, Ill., to (a) KIRSCHNER CONTRACTING CO., Dubuque, Iowa, $71,250; (b) BEARS SAND AND GRAVEL CO., Davenport, $71,250; (c) A. V. FETTER, Quincy, Ill., $71,250; (d) RUST & SWIFT, St. Louis, Mo., $118,750. Noted Sept. 28.

Neb., Chadron—Post Office and Courthouse—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., received low bids Dec. 7, (a) limestone, (b) sandstone, from McManus & Tarnoski, St. Paul, Minn., (a) $102,600, (b) $110,600; W. D. Lovell, Minneapolis, Minn., (a) $109,200; C. E. Goodhand, Ord, Neb., (a) $109,500, (b) $109,500. Noted Nov. 2.

Mont., St. Ignatius—Canal—U. S. Rec. Ser. received low bids, Flathead Project (a) Schedule 1, (b) Schedule 2, (c) Schedule 3, (d) Schedule 4, from A. L. Markhus, Dixon, Mont., (a) $18,260, (b) $15,852, (c) $20,270, (d) $19,951; Mendenhall Bird & Co., Springville, Utah, (b) $12,652, (c) $16,260, (d) $19,457; Long & Kelley, Polson, Mont., (b) $14,212. Noted Nov. 2.

Tex., Sabine Pass—Jetty Work—U. S. Engr. Office, Dallas, let contract, Sabine Pass, to D. M. PICTOR & CO., Galveston, $272,789. Noted Dec. 7.

Tex., Yoakum—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., let contract to ALGERNON BLAIR, Montgomery, Ala., $44,135. Noted Nov. 30.

Idaho, Twin Falls—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., received low bids Dec. 6, (a) faced with brick and limestone, (b) faced with brick and sandstone, (c) faced with limestone, (d) faced with sandstone, from W. D. Lovell, 1415 East 8th St., Minneapolis, Minn., (a) $81,300, (b) $80,700, (c) $84,750, (d) $84,150; C. R. Aldrich, 3rd and Jefferson Ave., Seattle, Wash., (a) $82,000, (b) $79,700, (c) $85,900, (d) $81,900; Welsh Bros. & Hannaman, Kalispell, Mont., (a) $83,338, (b) $82,589, (c) $87,146, (d) $86,452. Noted Oct. 26.

Wash., Seattle—Dredging—U. S. Engr. Office, Seattle, let contract, Lake Washington Ship Canal, to ERICKSON CONSTRUCTION CO., Downs Blk., Seattle, $109,825. Noted Nov. 16.

Calif., San Francisco—Crane—Bureau Yards and Docks, Navy Dept., Washington, let contract locomotive crane, Naval Coal Depot. to LINK-BELT CO., 39th and Stewart Ave., Chicago, Ill., $11,200. Noted Nov. 20.

Calif., Tiburon—Dredging—Bureau Yards and Docks, Navy Dept., let contract, Naval Coal Depot, Tiburon, to PACIFIC CONSTRUCTION, DREDGING AND RECLAMATION CO., 112 Market St., San Francisco. Noted Nov. 16.

Panama—Sewer Pipe—E. I. Brown, Gen. Pur. Officer, Panama Canal, Washington, D. C., received low bids Dec. 4, delivering at Colan (a) 2,500 lin.ft. 30-in. vitrified, (b) 2,500 lin.ft. 36-in., from Clearfield Sewer Pipe Co., (a) $5 per ft., (b) $7; Evans & Howard Fire Brick Co., (a) $5.74 and $5.94, (b) $8.20 and $8.45; L. W. May, (a) $2.87, (b) $4.41. Noted Nov. 30.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—(Official)—Barge Canal Work—W. W. Wotherspoon, State Supt. Pub. Wks., Capitol, receiving bids Dec. 27 raising highway bridge over Mohawk River at Schenectady, Contract No. 145. About $5,092.

Fla., Ocala—Canal—Citizens plan canal to connect Silver Springs.

Ky., Paducah—Reclamation—McCracken County made plans draining Mayfield Creek to reclaim 40,000 acres. About $280,000. J. E. Johnson, Paducah, County Engr. Noted July 6.

Ind., Brownstown—Ditch—Jackson County receiving bids Dec. 18 dredge ditch and beanch known as Lauster Ditch, Hamilton Township. S. Carr, Supt. Constr. Address County Clk., Brownstown.

Ind., Decatur—Ditch—Adams County appointed P. L. Macklin, Supt. of Constr., of Borum Run Drain.

Ind., Ft. Wayne—(Official)—Ditch—Allen County receiving bids Dec. 19 main ditch at new farm to be drainage outlet for new farm, extending along township line between Eel River and Perry Townships. W. Johnson, Ft. Wayne, Audr.

Ind., Winchester—Ditch—N. C. W. Ferguson, Ridgeville, receiving bids Dec. 20, Lewis H. Hotmire et al Ditch, Ward Township, Randolph County. J. W. Hindsley, Winchester, Comr.-in charge.

Ill., Woodstock—(Official)—Drainage—Coon Creek Drainage Comrs., Dairymen's State Bank, Marengo, receiving bids Dec. 20 tile, bulkhead, inlet and silt basin and material for main open ditch and branches. About $73,126. A. L. Webster, Wheaton, Engr. Noted Oct. 5.

Iowa, Sac City—Drainage—Sac and Buena Vista Counties receiving bids Dec. 22. Project includes 4,300-ft. open ditch cleanout, 210-ft. 30-in. tile and 14 cu.yd. concrete bulkheads. Address E. W. Moyer, Sac City.

Minn., Luverne—Ditch—W. J. Wolstencroft, Engr., Fulda, estimates cost of Drainage Ditch No. 3, Springwater Township, Rock County, at $20,800.

Minn., Moorhead—Ditch—Clay County receiving bids Dec. 19 Ditch No. 1. About $12,000. Address County Clk., Moorhead. Noted Nov. 23.

Minn., Moorhead—Ditch—Clay County receiving bids Dec. 19 Ditch No. 40. About $30,000. A. O. Houglum, Moorhead, Audr. Noted Nov. 2.

Minn., Red Lake Falls—Drainage—Red Lake, Clearwater, Polk, Koochiching, Marshall, Pennington and Marshall Counties plans to straighten and deepen Red Lake River,from outlet of lakes to Thief River Falls to drain land in 7 counties; also to build retaining dam at outlet of lakes. About $300,000 cost to be borne by power interests, river and harbor interests and State Minnesota. J. A. Duffy, Red Lake Falls, and O. L. Dent, Bemidji, interested.

N. D., Milnor—Drainage—Sargent County Drain Bd. plans drain to empty into Wild Rice River. Address County Clk., Milnor.

Calif., El Centro—Irrigation—Imperial Irrigation Dist. receiving bids Dec. 18, (revised plans), excavating canals, 6,000 ft. long, 600,000 cu.yd. in U. S. and 2,200 ft. long, 443,000 cu.yd. in New Mexico. Address Clk., El Centro. Noted June 1.

Calif., Fresno—Irrigation—Laguna Lands, Inc., plans system canals irrigating about 30,000 acres south Kingsbury. I. Tellman and L. A. Nares, Fresno, interested.

Calif., Modesto—Irrigation—Waterford Irrigation Dist. receiving bids Dec. 19, Sects. Nos. 1 and 2 main canal. Noted Nov. 30.

Bids In and Contracts Awarded

N. Y., Albany—Barge Canal Work—State Supt. Pub. Wks. rejected bids improving Ellicott Creek from intersection with Tonawanda Creek to point opposite southerly property line Eastern Lumber Co. Noted Nov. 30.

Fla., Jacksonville—Drainage—Baldwin Drainage Dist., Consolidated Bldg., let contract canals and improvements to LOGAN CONCRETE AND ENGINEERING CO., Jacksonville, about $218,698. Bonds for work sold. Noted Nov. 2.

Miss., Oxford—Ditches—Lafayette County let contract about 13 mi. drainage ditches to A. V. WILLS & SONS, Boatmen's Bank Bldg., $125,000.

Ind., Kokomo—Ditches—Howard County let contract Helmuthe and Fye Ditches to F. DAVENPORT, Kokomo, about $11,000.

Mich., Grand Haven—Ditch—Ottawa County let contract Rush Creek drain to GIBSON CO., Saginaw, about $20,000.

Minn., Bemidji—Ditch—Beltrami County let contract Ditch No. 25 to E. A. DAHL & CO., Duluth, about $433,122. Noted Oct. 19.

Minn., Breckenridge—Ditch—Wilkin County let contract Ditch No. 27 to G. E. BROWN, Litchfield, $0.146 per cu.yd.

Minn., Mankato—Ditch—Blue Earth County let contract Ditch No. 48 to NEW ULM BRIDGE AND TILE YARDS, about $11,036. Noted Nov. 9.

Minn., Morris—Ditch—Stevens and Swift Counties let contract Ditch No. 2, open work, to H. F. BOSWORTH, Ala., 11¼c. per cu.yd.; tile, SCHOELL BROS., Worthington, $5,100. Noted Nov. 16.

Minn., Morris—Ditch—Stevens County rejected bids Ditch No. 3. Noted Nov. 16.

Ark., South Bend—Drainage—F. O. Lowden let contract draining about 22,000 acres to R. H. McWILLIAMS & CO., Memphis, $35,000. Noted Aug. 3.

MISCELLANEOUS

Proposed Work

N. Y., New York—(Bronx)—Station Finish—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, receiving bids Jan. 3 station finish 6 stations in underground portion Southern Blvd. and Westchester Ave. extension Seventh Ave.-Lexington Ave. Rapid Transit R.R.

N. Y., Rochester—(Official)—Piling—Comrs. Pub. Bldgs. of Monroe County, Court House, receiving bids Dec. 27, 216½ tons Lackawanna

Miscellaneous (Continued)

arch web interlocking steel sheet piling in 55-ft. lengths. About 151½ tons have not been used, remainder about 65 tons has been driven once and pulled without injury. F. S. Couchman, Chn. (See adv.)

N. Y., Utica—Elimination Grade Crossings—New York Central R.R. making plans, at Utica. About $30,000. G. W. Kittredge, Grand Central Terminal, New York, Ch. Engr.

N. J., Camden—Water-Front Terminal—New Jersey State Bd. Commerce and Navigation submitted plans to Harbor Comn., foot Spruce St. Plans include terminal between ferries of Reading and Pennsylvania railroads directly on belt line on Front St. connecting 2 railroads and 2 piers. About $881,473. W. D. Sayres, Engr. Camden Harbor Comn.

N. J., Jersey City—Freight Terminal—Lehigh Valley Harbor Terminal Co., subsidiary of Lehigh Valley R.R., purchase site on New York Bay, foot of Chapel St. with 3,600-ft. shore frontage. Part of property under water and it is proposed to dredge and fill in land and use in connection with proposed freight terminal. About $10,000,000. P. Bentley, 75 Montgomery St., Jersey City, Counsel. Noted Mar. 30.

Penn., Philadelphia—Elimination Grade Crossing—Pennsylvania R.R. plans, 24th and Snyder Ave. About $75,000. A. C. Shand, Broad St. Station, Ch. Engr.

Penn., Philadelphia—Fire House—City making plans, 2-story, Germantown Ave. and Venango St., about $10,000. W. H. Wilson, Dir. Dept. Pub. Safety. L. E. Marine, Room 825, City Hall, Arch.

Penn., Philadelphia—Fire House and Police Station—W. W. Wilson, Dir. Dept. Pub. Safety, Room 215, City Hall, receiving bids Dec. 18 building and completing certain portions fire house and police station, Hunting Park Ave. and Schuyler St. and otherwise improving same.

Penn., Philadelphia—Subway—Pennsylvania R.R. plans 2-track passenger train subway from tracks New York Div. near 28th St. down Ridge Ave. and 13th St. to bring Western and Southern express trains into new central station at 15th and Market St. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Va., Roanoke—Retaining Wall—City receiving bids Dec. 27, west and south sides Municipal Bldg., also concrete driveway in rear thereof. F. L. Gibboney, City Engr.

Fla., Lake Worth—Harbor Improvements—City making plans inlet from Ocean to Lake Worth, also building turning basin and dock system. About $200,000. Isham Randolph & Co., 208 South La Salle St., Chicago, Ch. Engr.

Ky., Fairview—Monument—Jefferson Davis Home Assoc. plans, Jefferson Davis Park, 350 ft. high. About $20,000. G. W. Littlefield, Austin, Tex., Pres. Bd. Dir.

Ky., Louisville—Subway—City Engineering Dept. and engineering corps Southern Ry. making tentative plans subway to eliminate grade crossing on Versailles Pike at end West High St. to be about 1,200 ft. long. J. W. Gwyn, City Engr. B. Herman, 1300 Pennsylvania Ave., Washington, D. C., Ch Engr. M. W. and Struct.

Ky., Paducah—Park—Park Comrs. making plans. About $100,000. American Park Bldrs., 140 South Dearborn St., Chicago, Arch. Noted May 18.

Ohio, Canton—Track Elevation—Pennsylvania Lines West of Pittsburgh plans to elevate tracks through Canton. About $3,000,000 to be spent by railroad and $500,000 by city. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr. W. E. Sarver, City Engr.

Ohio, Cleveland—Amusement Pavilion—Luna Park Amusement Co. plans. About $40,000.

Ohio, Cleveland—Bath House—M. Bepurt granted permit bath house, 2505 East 34th St. About $10,000.

Ohio, Cleveland—Elimination Grade Crossing—City receiving bids Jan. 8 purchase of $600,000 bonds to eliminate grade crossings, lake front New York Central Ry. R. Hoffman, City Engr. Noted July 20.

Ohio, Cleveland—Subway—City plans Barber freight subway, East 55th St., in spring. J. J. Breitinger, interested.

Ohio, Cleveland—Swimming Pool—Y. W. C. A., Prospect and East 18th St., plans.

Ohio, Cleveland—Tunnel—City receiving bids Dec. 20 service tunnel under Detroit-Superior high-level bridge subway, West 25th St. R. Hoffman, City Engr.

Ohio, Salem—Subway—Council will ask Pennsylvania Lines West of Pittsburgh to build subway at local passenger station, also place gates at 3 grade crossings in city. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Mich., Muskegon—Comfort Station—City plans, Federal Sq. About $6,000. P. Grimes, City Engr.

Ill., Chicago—Lagoon—J. Hunt, Arch., 53 West Jackson Blvd., submitted plans lagoon along lake front to city. J. Ericson, City Engr.

Wis., Madison—Cast Iron Pipe, Etc.—Bd. of Water Comrs. soon receives bids for furnishing c.-i. pipe, service boxes and meters for use in 1917. E. Parker, Supt.

Wis., Milwaukee—Bath Houses—I. C. Pinner, Jr., Supt. Bridges and Bldgs., recommended city appropriate $85,000 bath houses Lake, Washington and Kosciusko Parks next year.

Minn., St. Paul—Crematory—Oakland Cemetery Assoc. plans. About $60,000.

Minn., West Duluth—Park—West Duluth Commercial Club plans central park, Central Ave., Elinor St. and Grand Ave. H. W. Lanners, Chn. Com.

Mo., Joplin—Elimination Grade Crossings—St. Louis & San Francisco R.R. and Kansas City Southern Ry. submitted preliminary plans 1,500-ft. viaduct. F. G. Jonah, St. Louis, Ch. Engr. former, and C. E. Johnston, Kansas City, of latter.

Mo., Kansas City—Pavilion—Park Bd. rejected bids. New bids Dec. 20. T. C. Harrington, City Hall, Secy. Noted Dec. 7.

Tex., Dallas—Elimination Grade Crossings—Gulf, Colorado & Santa Fe Ry. plans to eliminate 2 crossings, South Dallas. F. Merritt, Galveston, Ch. Engr.

Tex., Dallas—Elimination Grade Crossings—Missouri, Kansas & Texas Ry. adopted plans, North Dallas. About $600,000. L. F. Lonnbladh, Dallas, Ch. Engr. Noted Mar. 2.

Tex., Dallas—Stadium—City plans, Fair Grounds. About $100,000. H. Moseley, City Engr.

Tex., East Dallas—(Dallas post office)—Elimination Grade Crossing—Texas & Pacific Ry. plans rein.-con. viaduct on Pacific Ave. at crossing of Houston & Texas Central Ry., East Dallas, to Broadway near Trinity River, 4 tracks. About $1,000,000. C. E. Smith, St. Louis, made plans. C. H. Chamberlin, Dallas, Ch. Engr.

Colo., Stockton—Speedway—A. H. Patterson recommended that San Joaquin Auto Trades Assoc. build speedway. About $125,000.

Utah, Salt Lake City—Skating Rink—University of Utah plans ice-skating rink. L. Marshall, Head.

Ore., McMinnville—Creek Improvements—Citizens voted bonds to improve Hasken Creek. Work to be done under supervision. W. J. Brower, Engr.

Calif., Los Angeles—Dam—Citizens voted $683,210 cyclopean concrete dam, 137 ft. high and 750-ft. wide on site lower Otay Dam. M. M. O'Shaughnessy, City Engr., San Francisco, made plans.

Calif., Los Angeles—Dock—Pacific Coast Steamship Co. plans, 1,450-ft. long. City appropriated $266,000 toward cost. F. M. Barry, Asst. Mgr.

Calif., Portersville—Jetties—City plans for flood prevention on Tule River. About $10,000.

Ont., Port Arthur—Docks—Canadian Northern Railway System plans to improve coal and ore docks. About $100,000. H. D. Cameron, Toronto, Mechanical Engr.

Bids In and Contracts Awarded

N. Y., Amsterdam—Mausoleum—H. Chalmers, c-o Harvey Chalmers & Son, 13 East Main St., let contract to JONES BROS., Barre, Vt. About $20,000.

N. Y., New York—(Official)—(Brooklyn)—Park Improvements—Borough received low bids completing 4th part of greenhouses, Brooklyn Botanic Garden, Washington Ave. from Frymier & Hanna, 25 West 45th St., Manhattan, $9,139; Kelly & Kelly, 52 Broadway, Manhattan, $10,100.

N. Y., New York—(Brooklyn)—(Official)—Subway—Pub. Ser. Comn. for First Dist., 120 Broadway, Manhattan, let contract connecting line between New Utrecht Ave. (West End Line), and Culver Rapid Transit R.R., Sect. 1-A, Route 49, to T. DWYER, Broadway and 215th St., Manhattan, about $42,268. Noted Dec. 7.

Penn., Brownsville—Undergrade Crossing—Monongahela Ry. let contract to W. BIRKLE. About $30,000. Noted Sept. 7.

Penn., Philadelphia—Park Improvements—City let contract portion League Island Park to E. H. VARE, Lincoln Bldg., about $500,000. Noted Dec. 7.

Penn., Philadelphia—(Official)—Subway—Dept. City Transit let contract section Broad St. subway, Contract No. 192, to KEYSTONE STATE CONSTRUCTION CO., 704 Pennsylvania Bldg., about $920,130. Noted Oct. 19.

Ill., Chicago—Engine House—Chicago & Northwestern Ry., 226 West Jackson Blvd., let contract, 120th St. and Calumet River, to W. J. CAMERON CO., 106 North La Salle St. About $28,000.

Wis., Portage—Subway—Chicago, Milwaukee & St. Paul Railway Co. let contract, Mac St., to P. JOHNSON, Beloit. Noted Oct. 12.

Mo., Cape Girardeau—(Official)—Park Improvements—City plans to improve Fairground Park by day labor. Muskopf & Irish, St. Louis, Arch. and Engr. Noted Nov. 30.

Wash., Seattle—Sheds—Skinner Eddy Corporation let contract to GRANT, SMITH & CO., Henry Bldg., about $40,000.

Wash., Snohomish—Cement—Snohomish County let contract 200,000 bbl. to WASHINGTON PORTLAND CEMENT CO.

Ore., Portland—Shipways—Columbia River Shipbuilding Co. let contract, (3) to NORTHWESTERN STEEL CO., Foot of Sheridan St., about $30,000.

Ore., St. Johns—Shipways—Peninsular Shipbuilding Co. let contract to JACOBSEN CONSTRUCTION CO., McKay Bldg., Portland.

Calif., Richmond—Bulkhead—Council let contract to STANDARD-AMERICAN DREDGING CO., San Francisco, about $39,376.

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works" "Federal Government Work" and "Miscellaneous."

Mass., Lowell—High School—Council receiving bids Dec. 28 addition. About $70,000. H. L. Rourke, Hildreth Bldg., Lowell, Arch. Noted Nov. 2.

Mass., Williamstown—Library—Williams College plans improving. About $80,000 or $100,000. A. Harding, Pittsfield, Arch.

N. Y., Binghamton—School—Bd. Education making plans 2-story, 62x83-ft. About $16,000. T. J. Lacey & Son, 1110 Press Bldg., Arch.

N. Y., Garrison—Hotel—Fish & Marvin, 527 5th Ave., New York, making preliminary plans, 7- and 10-story, 160x100-ft. About $1,000,000. Marvin & Davis, 503 5th Ave., New York, Arch.

N. Y., King's Park—Nurses' Home—King's Park State Hospital making plans 3-story, 110x200-ft. About $128,000. L. F. Pilcher, Capitol, Albany, Arch.

N. Y., New York—(Brooklyn)—(Official)—Theater—M. Z. Realty Co., 231 Cherry St., soon receives bids, 1-story, brick, on DeKalb and Sumner Ave. About $30,000. Shampan & Shampan, 772 Broadway, Brooklyn, Arch.

N. Y., New York—(Manhattan)—(Official)—Musical Mutual Protective Union, 210 East 86th St., receiving bids, 3-story, 75x102 ft. office, ball room and commercial building, at 209-15 East 85th St. About $200,000. Trowbridge & Livingston, 527 5th Ave., Manhattan, Arch.

N. Y., Onondago—School—City making plans, 2-story. About $150,000. Russell & King, 602 Snow Bldg., Syracuse, Arch. Noted Aug. 10.

N. Y., Phoenix—Memorial Building—City plans, L. F. Pilcher, Capitol, Albany, Arch.

N. Y., Syracuse—Infirmary—Syracuse University Hospital of Good Shepherd making plans, 4-story, 40x100-ft. Revel & Hallenbeck, Syracuse University, Arch.

N. J., Elizabeth—School—Bd. Education plans at Virginia St. and Union Ave. About $60,000.

N. J., Newark—Courthouse—County making plans. About $750,000. M. N. Shoemaker, 710 Broad St., Newark, Arch.

N. J., Trenton—Hotel—B. C. Kuser made plans. About $500,000 to $750,000. R. E. White, Penn. Bldg., Philadelphia, Penn., Arch.

Penn., Ambridge—Grade School—Bd. Education making preliminary plans, 2-story, 166x312-ft. About $50,000. W. W. Williams, Magee Bldg., Pittsburgh, Arch.

Penn., Coatesville—Bank and Store—National Bank of Chester Valley making plans 1- and 3-story addition and alterations. About $60,000. A. A. Ritcher, 31 North 6th St., Reading, Arch. Noted Oct. 26.

Penn., Doylestown—Science Building—National Farm School making plans. About $75,000. Magaziner & Potter, 603 Chestnut St., Philadelphia, Arch.

Penn., Freeport—Passenger Station—Pennsylvania R.R. plans 2-story, brick and steel, 45x115 ft. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Penn., West Chester—School—Bd. Education made plans 3-story, concrete and brick. About $120,000. P. A. Davis, 1713 Sansom St., Philadelphia, Arch. Noted Nov. 16.

Del., Laurel—Bank—People's National Bank made plans 1-story. About $75,000. T. W. Pietsch, American Bldg., Baltimore, Md., Arch. Noted Nov. 23.

Md., Kendallville—High School—City plans. About $250,000. C. R. Weatherhogg, Arch.

Md., Ocean City—Hotel—Isle of Wright Land Co., recently incorporated with $300,000 capital stock, plans. About $100,000.

Md., Tacoma Park—(Washington, D. C., post office)—Dormitory—Bliss Electric School making plans 4-story, 45x80-ft. and 40x45-ft. addition. About $60,000. F. H. Jackson, Aspen, Rockville, Md., Arch.

Va., Richmond—Hotel—Virginia Building Corporation plans 15-story, 11th and Main St. A. B. Blair interested.

W. Va., Morgantown—University of West Virginia receiving bids Jan. 1, 4-story, brick and limestone, 46x180-ft. and 60x150-ft. buildings. About $300,000. P. A. Davis, 1713 Sanson St., Philadelphia, Penn., Arch. Noted Sept. 28.

S. C., Greenville—High School—School Trustees soon receives bids. About $65,000. P. T. Haynes, Chn. Noted Dec. 7.

Ga., Decatur—Courthouse—(Official)—De Kalb County Comrs. receiving bids in January. About $80,000. Walker & Chase, Candler Bldg., Atlanta, Arch. Noted Nov. 30.

Fla., Jacksonville—School—County receiving bids Dec. 23 brick, at Ashley and Broad St. F. A. Hathaway, 415 Masonic Temple, Supt.

La., New Roads—School—City voted $100,000 bonds to build schools.

La., Shreveport—Opera House—Saenger Amusement Co. plans. About $100,000. E. F. Neild, Continental Bank Bldg., Arch.

La., Shreveport—Bank and Office—Merchants Building Co. making plans 10-story, at Market and Milam St. About $300,000. Sanguiet & Staats, Ft. Worth, Arch. Noted Dec. 7.

Buildings (Continued)

Tenn., Cumberland Gap—Administration Building—Lincoln Memorial University making plans. About $60,000. L. Fechheimer, 1534 Union Trust Bldg., Cincinnati, Ohio, Arch.

Tenn., Knoxville—Lodge—Loyal Order of Moose. Knoxville Lodge No. 696, plans. About $5 , 0

Ohio, Cincinnati—Temple—E. I. Carson Lodge of Masons plans, Ohio and McMillen St. About $50,000. W. Henke, Secy.

Ohio, Cleveland—Church—Broadway Methodist Episcopal Congregation, Broadway and Gallup St., plans. About $150,000. W. L. McDowell, Pastor.

Ohio, Cleveland—Store—J. Novogreder, 1781 East 63d St., making plans on Detroit Ave. About $75,000.

Ohio, Dayton—Church—Grace Methodist Episcopal Congregation making plans. About $150,000. Scheneck & Williams, 591 Arcade Bldg., Arch. Noted Nov. 30.

Ohio, Findlay—School—Jackson Township voted $60,000 bonds to build school. Noted Oct. 26.

Ohio, Galion—Grade and High School—Bd. Education making plans, 2-story. About $175,000. Howard & Merriam, Columbus, Arch. Noted Dec. 7.

Ohio, Hilliards—Grade and High School—Bd. Education receiving bids Dec. 22, 2-story. F. L. Packard, Heydon Bldg., Columbus, Arch. Noted Nov. 9.

Ohio, Marion—Clubhouse—Knights of Columbus made plans. About $100,000.

Ohio, Painesville—Gymnasium and Dormitory—Lake Erie College making plans, 3-story. About $125,000. A. Garfield, 915 Garfield Bldg., Cleveland, Arch.

Ohio, Portsmouth—Hospital—H. A. Shirrman, M. D., plans 4-story, brick and rein.-con., on 8th St. About $75,000. R. E. Schmidt, Garden and Martin St., Chicago, Ill., Arch.

Ohio, Rocky River—High School—Bd. Education receiving bids Dec. 28, sale of $75,000 bonds to build high school. H. Dean, Clk.

Ohio, Steubenville—Y. M. C. A. plans to spend $50,000 for alterations and improvements to building.

Ohio, Youngstown—Terminal Station—Erie R.R. making plans. About $5,000,000. R. S. Parsons, Ch. Engr.

Ind., Auburn—Jail and Residence—Dekalb County making preliminary plans. About $50,000. Robinson & Miller, Leader-News Bldg., Cleveland, Ohio. About $50,000.

Ind., Columbia City—City plans building. Church & Cover, Ft. Wayne, Arch.

Ind., Gary—Bank—Union Trust and Savings Bank, Broadway, plans. About $100,000.

Ind., Goshen—F. Mayr, Sr., plans 8-story building.

Ind., Indianapolis—Home—Norwegian Christian Home for Aged Men and Women plans. About $100,000.

Ind., Plymouth—School—City plans. About $70,000.

Mich., Detroit—High School—Cass Technical High School plans addition. About $1,000,000. Malcomson & Higginbotham, Arch.

Mich., Mt. Morris—School—City voted $40,000 bonds to build school.

Ill., Bloomington—Hotel—H. Wiggins plans. About $300,000.

Ill., Chicago—Office—Page Engineering Co. purchased site 210-14 East Huron St., plans 60x111-ft. J. W. Page, Pres.

Ill., Peoria—Hospital—St. Francis made plans addition. About $100,000. A. F. Moratz, Bloomington, Arch.

Ill., Springfield (Official)—Church—Lincoln Memorial Congregation receiving bids in spring. About $50,000. Noted Sept. 7.

Wis., Madison—Hotel—Claude & Stark, Arch., 8 South Carroll St., made plans for addition to Park Hotel on West Main St. About $350,000.

Wis., Mt. Calvery—College—St. Lawrence Monastery plans 4-story, 50x104-ft. rein.-con. and brick addition. About $50,000. E. Brielmaier & Sons Co., University Bldg., Milwaukee, Arch.

Iowa, Cedar Rapids—Library—Coe College plans. About $50,000.

Iowa, Des Moines—Hotel—M. A. Talbot, Rome, N. Y., plans 4-story, at 6th Ave. and Cherry St. About $125,000. Kraetsch & Kraetsch, Des Moines, Arch.

Iowa, Des Moines—Consistory Cathedral—Scottish Rite Cathedral made plans. About $325,000. Noted Dec. 7.

Iowa, Sioux City—Theater—T. S. Martin making plans, 412 Nebraska St. About $100,000.

Minn., Hibbing—Temple—Elks Lodge plans. About $40,000.

Minn., Waconia—High and Grade School—School Dist. receiving bids Dec. 20.

Minn., Winnebago—High School—City making plans, 2-story. J. T. Snyder, 741 Plymouth Bldg., Minneapolis, Arch.

Kan., Concordia—Temple—Odd Fellows' Lodge making plans, 3-story, 44x132-ft. C. W. Shaver, Clay Center, Arch.

Kan., Junction—Dormitory—Odd Fellows Home plans. About $75,000.

Kan., Neodesha—High School—City voted $100,000 bonds to build high school. Noted Nov. 23.

Kan., Newton—school—Bd. Education receiving bids Dec. 27. 2-story, brick. About $60,000. Noted Nov. 2.

Neb., Columbus—Church—Polish Catholic Congregation plans 1-story brick and stone. C. Wurdeman 313½ 13th St. Arch.

Neb., Scottsbluff—City Hall—City plans.

N. D., Fargo—Science Hall—North Dakota Agricultural College plans. About $60,000.

Mont., Deer Lodge—Hospital—Sisters of Charity making plans. About $85,000. Beezer Bros., North Bank Bldg., Seattle, Wash. Arch.

Mont., Great Falls—Home—Salvation Army plans 3-story. About $50,000. R. Cooper, Chmn. Com.

Mont., Great Falls—Hotel—Salvation Army making plans. About $ 000.

Mont., Lewiston—Hotel—B. H. Farrell made plans 6-story. About $350,000. Noted Nov. 30.

Ark., Hot Springs—Hospital—Knights and Ladies of Security plans. About $250,000.

Tex., Dallas—(Official)—Baptist Sanitarium receiving bids in January, 5-story addition to building. About $150,000. C. W. Bulger & Sons, Praetorium Bldg., Arch. Noted Nov. 30.

Tex., Ft. Worth—Schools—City soon receives bids. About $200,000. Noted Aug. 10.

Tex., Lubbrock—Sanitarium—City plans 3-story, brick. About $50,000.

Tex., San Antonio—Hotel—San Antonio Hotel Co. making plans. 3-story, 208x400 ft. About $350,000. J. F. Walker, San Antonio, Arch.

Tex., Sherman—High school—City voted $100,000 bonds to build high school. Noted Sept. 7.

Tex., Temple—Freight Depot, Etc.—Atchison, Topeka & Santa Fe R.R. plans. About $75,000. F. W. Felt, Chicago, Ill., Ch. Engr.

Okla., Oklahoma City—Y. M. C. A. making plans building. About $300,000.

Okla., Tulsa—Y. M. C. A. making plans building. About $150,000. Noted Oct. 12.

Colo., Denver—Museum—City plans addition. About $60,000.

N. M., Clovis—High School—City votes Dec. 23 on $50,000 bonds to build high school. Noted Nov. 2.

Utah, Kaysville—Depot—Salt Lake & Ogden Ry. plans. L. Wilson, Ch. Engr.

Wash., Bremerton—Gymnasium—Y. M. C. A. made plans. About $60,000. Steinman & Colvin, Arch.

Wash., Centralia—School—School Bd. plans. About $60,000. G. L. Barner, Clk.

Wash., Tacoma—Theater—Ackerman & Harris, San Francisco, Calif., plans for Hippodrome Circuit. About $150,000.

Ore., Portland—Clubhouse—Laurelhurst Club plans. About $40,000.

Calif., Fresno—Burnett Sanitarium plans building. About $75,000. J. E. Kraft & Son, Phelan Bldg., San Francisco, Arch.

Calif., Merced—High School—Bd. Education made plans. About $150,000. Allison & Allison, Hibernian Bldg., Los Angeles, Arch. Noted Nov. 23.

Calif., Sacramento—School—City made plans, bids soon to be received. About $200,000. C. C. Hughes, Supt. Schools.

Que., St. Jean de Dieu—Church—Parish Congregation soon receives bids. About $60,000. P. Levesque, 115 St. John St., Quebec, Arch.

Ont., London—Hospital—London Health Association soon receives bids. About $75,000. Watt & Blackwell, Bank of Toronto Bldg., Arch. Noted Oct. 26.

Ont., Windsor—Office Bldg.—Huron & Erie Mortgage Corporation soon receives bids. Watt & Blackwell, Bank of Toronto Bldg., London, Arch.

Bids Received and Contracts Awarded

R. I., Pawtucket—School—School Bd. let contract 2-story, 191x260-ft. to F. B. ROWLEY CO., 260 Central Ave., $175,000.

R. I., Providence—Theater and Office—E. A. Albee, 1564 Broadway, New York, let contract 4-story, 43x100-ft. to WARREN MOORE CO., Commercial Bldg., Philadelphia. About $300,000.

R. I., Providence—Asylum—Home for Aged Women let contract 3-story, 33x64-ft. to W. WILLIAMS, 86 Weybosset St., $45,000.

N. Y., Buffalo—Clubhouse—Columbian Turnverin let contract to METZGAR CONSTRUCTION CO., 19 West Huron St. About $65,00.

N. Y., New Hampton—Reformatory—Dept. of Correction let contract 100x300-ft., brick, to FRYMIER & HANNA, 25 West 45th St., Manhattan. $200,000. Noted Nov. 9.

N. J., Ridgewood—High School—Bd. Education let contract to WATSON FLAGG ENGINEERING CO., 120 Broadway, New York. About $225,000. Noted Nov. 23.

Penn., Charleroi—Council let contract building at 4th St. and Fallowfield Ave. to J. C. BRENTON, $50,000.

Ohio, Dayton—School—Br. Education let contract 2-story, 82x172-ft. to J. ROUKER CO., Dayton. About $150,000. Noted Nov. 23.

Ohio, Wellsville—(Official)—High School—Bd. Education let contract 2-story to C. A. VORHES, Nelsonville, $86,980. Noted Nov. 16.

Ind., Indianapolis—School—Tudor Hall, c/o Fredinia Allen, 1550 North Meridian St., let contract 2-story to STATE CONSTRUCTION CO., 803 K. of P. Bldg., Indianapolis. About $80,000. Noted Sept. 21.

Ind., Martinsville—Sanitarium—Home Lawn Mineral Springs Sanitarium let contract addition to S. A. HICKMAN, Martinsville. About $50,000.

Ind., Richmond—Girls' Home—Martha Washington Realty Co. let contract 3-story, 88x133-ft. to STRUCTURAL ENGINEERING CO., Leader-News Bldg., Cleveland, Ohio. About $100,000.

Mich., Detroit—Bank—Michigan State Bank let contract, Chene and East Forest St., to J. NEWAKEWSKI & CO., Detroit.

Mich., Detroit—School—City let contract 2-story, concrete and brick, 1314-40 McGraw St., to A. J. SMITH CONSTRUCTION CO., 18 Campau Bldg., Detroit. About $140,000.

Ill., Chicago—Church—Unity Evangelical Lutheran Congregation let contract 1-story, brick, 5401-52 Magnolia Ave., to A. OSTROM, Chicago. About $50,000.

Iowa, Des Moines—Hospital—H. S. Richards, Secy., John McDonald Memorial Hospital, let contract to A. H. NEWMAN & CO., 519-20 Hubbell Bldg., $60,000.

Iowa, Sioux City—Church—First Congregational Church let contract to C. F. LITTLE CONSTRUCTION CO., Lytle Bldg., Sioux City, $75,000. Noted Sept. 7.

Neb., Grand Island—Passenger Station—Union Pacific Railway Co. let contract to ZEIGLER BROS., Junction City, Kan., $150,000. Noted Oct. 5.

Neb., North Platte—Station—Union Pacific R.R. let contract to J. STEWART & CO., Boatmans Bank Bldg., St. Louis, Mo., $125,000.

N. D., Williston—Hotel—G. W. Newton and E. B. Link let contract 4-story to E. B. LINK. About $60,000.

Mo., Kansas City—Hospital—City let contract addition to J. E. TAYLOR, 711 Ridge Arcade. $63,057. Noted Nov. 23.

Mo., Monroe—Bank, Store and Office—Farmers' and Merchants' Bank let contract 2-story, 50x140-ft. to J. KNITTEL CO., 319 North 3rd St., Quincy, Ill. About $50,000.

Ark., Bentonville—Bd. Directors Arkansas Grand Lodge, A. O. U. W. let contract 10-story building on Center St. to MANN & STERN, Bentonville. About $150,000.

Tex., Falfurrias—Jail—Brooks County Comrs. let contract to C. FUESS & SONS.

Okla., Tulsa—Bank and Office—Exchange National Bank let contract, 11-story, brick, to SELDEN-BRECK CONSTRUCTION CO., Fullerton Bldg., St. Louis, Mo., $159,000.

Calif., Livermore—Hospital—Bd. of County Supervs. let contract to W. G. THORNALLY, $104,690. Noted Nov. 23.

Calif., Los Angeles—Hotel—F. Simpson let contract 11-story, rein.-con., on Grand Ave. to ALTA PLANING MILL CO., 830 McGarry St. About $82,800. Noted Nov. 9.

Ont., Hamilton—Hospital Pavilions—Dominion Hospital Comn., Ottawa, let contract to F. CHARLTON, Room 207, Clyde Bldg., $50,000.

Paving Equipment for Cuba—One of the largest single shipments of paving equipment on record is that just made to Torrance & Portal, of Havana, Cuba, who has secured extensive paving contracts in Havana and Cienfuegoes. The shipment made by the Iroquois Works of the Barber Asphalt Paving Co. consisted of 6 cars routed by way of Key West, Fla., carrying two 3-unit asphalt plants, two 2,000-gal. and one 1,000-gal. steam-heated melting kettles, 4 tandem rollers, 2 portable boilers and engines, firewagons, paving tools, etc. Contracts already secured by the Havana firm for paving in which Trinidad lake asphalt will be used, total about 400,000 sq.yd. One of the Iroquois plants is to be located at Havana and the other at Cienfuegos.

The copartnership of the **Francis M. Barton Co.**, composed of Francis M. Barton, Jens J. Jensen, Robert Seth Lindstrom and Edward A. Klamt was terminated on Nov. 26 and same is now composed of Francis M. Barton, Jens J. Jensen and Edward A. Klamt.

Ike S. Byrum, special representative of the Troy Wagon Works Co., Troy, Ohio, has completed arrangements for the handling of Troy motor truck trailers with O'Rourke-Muller Motor Co., 853 Carondelet St., New Orleans, La.

Fayette C. Kirby, Consult. Engr., San Antonio, Tex., announces that he has charge of considerable work that will be open for bids in the near future. He would be pleased to receive catalogs and prices on all engineering lines especially at present, on building work of all description, sewers, septic tanks, power plants and equipment and water-works. All of the work will be handled through Mr. Kirby.

BARGE CANAL, ALBANY, N. Y.

Terminal Contract No. 101

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., Albany, for Barge Canal work, Terminal Contract No. 101, furnishing and installing steel stiff leg derricks on terminal sites at Albany, Whitehall, Little Falls, Rome, Lockport and Tonawanda, from (A) Lupfer & Remick, Buffalo; (B) Engineer's Estimate. The item bids were as follows:

	A	B
130 cu.yd. excavation (Albany)	$0 60	$0 60
83 cu.yd. concrete (Albany)	10 00	7 00
32,450 lb. metal (Albany)	14	09
182 sq.yd. removing pavement (Albany)	60	60
166 sq.yd. relaying pavement (Albany)	50	50
221 cu.yd. excavation (Whitehall)	60	60
65 cu.yd. concrete (Whitehall)	10 00	7 00
35,090 lb. metal (Whitehall)	14	09
192 cu.yd. excavation (Little Falls)	60	60
55 cu.yd. concrete (Little Falls)	10 00	7 00
32,450 lb. metal (Little Falls)	14	09
252 cu.yd. excavation (Rome)	60	60
71 cu.yd. concrete (Rome)	10 00	7 00
35,970 lb. metal (Rome)	14	09
118 cu.yd. excavation (Lockport)	60	60
70 cu.yd. concrete (Lockport)	10 00	7 00
31,020 lb. metal (Lockport)	14	09
118 sq.yd. removing pavement (Lockport)	60	60
109 sq.yd. relaying pavement (Lockport)	50	50
109 cu.yd. excavation (Tonawanda)	60	60
77 cu.yd. concrete (Tonawanda)	10 00	7 00
31,020 lb. metal (Tonawanda)	14	09
182 sq.yd. removing pavement (Tonawanda)	60	60
168 sq.yd. relaying pavement (Tonawanda)	50	50
Extended totals	$33,053	$21,890

Contract No. 98

Bids were received by W. W. Wotherspoon, State Supt. Pub. Wks., Albany, for Barge Canal work, Contract No. 98, lift bridge on Adams St., Lockport, and removing existing lift bridge at Chapel St., from (A) Lupfer & Remick, Buffalo; (B) Tifft Construction Co., Inc., Buffalo; (C) H. S. Kerbaugh, New York. The item bids were as follows:

	A	B	C
12,800 cu.yd. excavation	$0 18	$0 68	$1 20
4,150 cu.yd. forming embankment	15	12	15
234 M ft. b.m. sawed lumber	78 00	60 00	70 00
874 cu.yd. second-class concrete	9 00	6 50	9 00
1,100 cu.yd. first-class reinforced concrete	13 80	9 50	13 00
383 cu.yd. wash wall	3 00	2 00	2 50
290 cu.yd. wash wall relaid	2 00	1 00	2 00
375,700 lb. structural steel	072	08½	07½
66,900 lb. metal reinforcement	054	03½	05
65,400 lb. machinery	15	15½	15
1,760 sq.ft. concrete sidewalks	25	16	30
384 lin.ft. concrete curbing	90	1 00	1 30
65 sq.yd. brick pavement	1 40	1 70	2 00
165 sq.yd. waterbound macadam 6 in. thick	75	80	1 00
775 sq.yd. waterbound macadam 9 in. thick	1 20	1 10	1 20
354 lin.ft. wooden fence	25	25	35
68 lin.ft. wrought iron pipe railing	2 00	1 80	2 50
370 lin.ft. lattice railing	3 30	2 80	4 50
2,200 lb. metal duct	144	13	14
36 lin.ft. drilling holes in existing masonry	1 00	1 00	1 00
Electrical equipment (lump sum)	5,520 00	4,200 00	6,000 00
Plumbing (lump sum)	840 00	680 00	1,200 00
Operator's house (lump sum)	3,000 00	2,100 00	3,000 00
Maintaining navigation (lump sum)	840 00	600 00	1,000 00
Cofferdams, pump, bail and drain (lump sum)	960 00	600 00	1,000 00
Deduct for superstructure of Chapel St. Bridge (lump sum)	100 00	500 00	300 00
Extended totals	$84,788	$82,276	$99,111

SEWAGE-DISPOSAL PLANT, SEDALIA, MO.

Bids were received by city Nov. 6 for constructing the Northwest Sedalia Sewage-Disposal Plant from (A) T. H. Johnson, Sedalia; (B) J. W. MENEFEE, Sedalia (awarded contract); (C) Woehler Construction Co., Kansas City, Mo. The item bids were as follows:

	A	B	C
Disposal plant (lump sum)	$53,263	$52,500	$54,356
5,810 cu.yd. earth excavation	.55	.40	.60
540 cu.yd. rock excavation	3 30	3 50	3 50
1,480 cu.yd. concrete	6 40	10 00	12 00
4,265 cu.yd. filter stone	2 25	2 50	3 25
42 cu.yd. filter gravel	2 25	2 50	3 25
56 cu.yd. filter sand	1 90	2 50	2 00
84,000 lb. reinforcing steel	.03½	.05	.04½
1,750 lb. miscellaneous steel	.08	.15	.06
35,600 lin.ft. 6-in. split tile	.05½	.05	.06
390 lin.ft. 6-in. drain tile	.11	.05	.12
72 lin.ft. 6-in. vit. sewer pipe	.12	.11	.17
3,180 lin.ft. 8-in. vit. sewer pipe	.22	.17	.23
16 lin.ft. 12-in. vit. sewer pipe	.33	.28	.69
380 lin.ft. 15-in. split sewer pipe	.41	.60	.51
80 lin.ft. 15-in. vit. sewer pipe	.48	.45	1 25
762 lin.ft. 18-in. vit. sewer pipe	.70	.65	1 50
215 lin.ft. 24-in. vit. sewer pipe	1 30	1 20	1 70
408 lin.ft. 8-in. c.-i. pipe	1 40	1 50	1 40
1,008 lin.ft. 3-in. galv. w.-i. pipe	.55	.55	.60
8,650 lb. special c.-i. fittings	.05	.05½	.05
46 gate valves	22 00	21 00	23 00
252 nozzles	2 50	2 50	2 00
2 manholes	25 00	40 00	40 00
10 valve boxes	5 50	5 00	5 00
Sewer Construction			
2,442 lin.ft. 24-in. vit. pipe laid	1 97	2 00	2 00
4 manholes	35 00	35 00	40 00
2,000 lin.ft. loose rock, 1 ft. deep	.24	.25	.20
2,000 lin.ft. solid rock, 1 ft. deep	.40	.40	.35
Extended grand totals	$59,494	$58,824	$60,500

STORM SEWERS, PLAINFIELD, N. J.

Bids were received by Common Council Nov. 20 for storm sewers from (A) CHARLES A. PETERSON, Plainfield (awarded contract); (B) C. J. Cogan, Bayonne; (C) James Ferry & Sons, Inc., Baltimore, Md.; T. Foster Callahan, Elizabeth, $30,419; J. M. Kelley Contracting Co., Camden, $31,696; H. K. Corbin Co., Inc., New York, $34,490; Harrison & Craig Co., Newark, $36,339. The item bids of the three lowest bidders were as follows:

	A	B	C
110 lin.ft. 45-in. circular sewer 12 to 14 ft. deep	$7 80	$8 33	$8 75
180 lin.ft. 45-in. circular sewer 14 to 16 ft. deep	8 90	8 81	9 75
110 lin.ft. 45-in. circular sewer 16 to 18 ft. deep	9 80	9 29	11 25
380 lin.ft. 42-in. circular sewer 14 to 16 ft. deep	8 40	8 27	8 65
390 lin.ft. 42-in. circular sewer 16 to 18 ft. deep	9 45	8 71	9 80
70 lin.ft. 39-in. circular sewer 10 to 12 ft. deep	6 55	6 76	6 85
250 lin.ft. 39-in. circular sewer 12 to 14 ft. deep	6 95	7 20	7 50
420 lin.ft. 39-in. circular sewer 14 to 16 ft. deep	7 70	7 60	8 70
120 lin.ft. 36-in. circular sewer under 6 ft. deep	5 25	4 98	5 00
40 lin.ft. 36-in. circular sewer 6 to 8 ft. deep	5 55	5 30	5 70
50 lin.ft. 36-in. circular sewer 8 to 10 ft. deep	5 85	5 12	6 30
50 lin.ft. 36-in. circular sewer 10 to 12 ft. deep	6 20	5 44	7 00
60 lin.ft. 33-in. circular sewer under 6 ft. deep	4 90	4 12	4 10
100 lin.ft. 33-in. circular sewer 6 to 8 ft. deep	5 10	4 44	4 40
110 lin.ft. 27-in. circular sewer under 6 ft. deep	4 20	3 33	3 10
410 lin.ft. 27-in. circular sewer 6 to 8 ft. deep	4 45	3 57	3 40
140 lin.ft. 27-in. circular sewer 8 to 10 ft. deep	4 65	3 81	3 85
1 manhole under 6 ft. deep	50 00	47 00	40 00
2 manholes 6 to 8 ft. deep	60 00	47 00	45 00
1 manhole 10 to 12 ft. deep	65 00	52 00	75 00
3 manholes 14 to 16 ft. deep	85 00	62 00	100 00
3 manholes 16 to 18 ft. deep	100 00	71 00	110 00
30 inlets	30 00	54 00	35 00
800 lin.ft. 12-in. vitrified inlet connections	1 10	1 50	1 25
100 lin.ft. 15-in. vitrified inlet connections	1 50	1 50	1 40
1 connection with brook Watching Ave.	25 00	75 00	100 00
40 sq.yd. brick pavement restored	3 00	2 25	3 00
1,000 sq.yd. water-bound macadam restored	75	1 25	90
300 cu.yd. concrete for foundations, etc.	7 00	7 50	9 00
100 cu.yd. foundations of screened gravel	1 00	2 50	1 00
100 cu.yd. rock excavation	25	4 00	2 00
40 M ft. b.m. lumber for sheeting	30 00	28 00	30 00
5 M ft. b.m. lumber for platforms and foundations	40 00	45 00	40 00
100 lb. steel I-beams used in manholes	08	05	.07
Extended totals	$28,361	$29,192	$30,140

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Signal Towers

Bids were received by Public Service Commission Nov. 9 for installing signal towers on River Rd. and Jerome Ave. extension of Seventh Avenue-Lexington Avenue Line White Plains Line and Queensboro Subway, Routes Nos. 16-18, Sects. Nos. 1 and 2, Routes Nos. 36 and 37, Sects. Nos. 1 and 2, from (A) H. C. STOWE CONSTRUCTION CO., 221 Greenpoint Ave., Brooklyn (awarded contract); (B) Snare & Triest, 233 Broadway, New York; (C) T. Dwyer, Broadway and 216th St., New York; J. B. Roberts, 3 West 29th St., New York, $125,520; Charles Meads & Co., 38 Park Row, New York, $130,919. The item bids of the three lowest bidders were as follows:

	A	B	C
110 lin.ft. stairways, wood treads	$1 10	$2 40	$2 00
310 lin.ft. stairways, steel treads	2 00	3 10	2 00
420 sq.ft. stairway landings, wood	95	1 30	2 00
350 sq.ft. stairway landings, steel	2 00	2 20	2 00
3 ton steel columns, etc.	130 00	170 00	150 00
30 cu.yd. masonry, etc., concrete foundations	10 00	17 00	10 00
12 cu.yd. masonry, etc., brick or concrete manholes	50 00	80 00	50 00
10 cu.yd. rock excavation	6 00	6 00	10 00
950 lin.ft. railings, pipe	1 60	1 10	1 50
540 lin.ft. metal leaders, 3-in. corr. c.i.	35	35	50
75 lin.ft. metal leaders, 3½-in. w.i.	1 60	1 30	1 50
625 lin.ft. metal leaders, 3-in. copper	75	90	1 00
100 ton enclosures between stations, steel framing	130 00	145 00	130 00
175 ton enclosures between stations, steel girders, etc., supporting	130 00	135 00	132 00
3 ton enclosures between stations, steel girders reinforcing	160 00	180 00	140 00
1,150 drilling holes in steel	35	40	50
170 sq.ft. metal lath, without furring	12	20	30
12 doors, oak toilet stalls	12 00	12 00	20 00
250 hardware for doors, d.h. sash	5 00	3 50	4 00
11 hardware for doors, hinged sash	4 50	7 00	3 00
12 hardware for doors, toilet stall doors	12 00	12 00	5 00
3 hardware for doors, vent doors	4 50	4 00	5 00
20 hardware for doors, single door signal tower	12 00	10 00	5 00
10 hardware for doors, double door signal tower	18 00	20 00	10 00
20 additional hardware door checks	6 00	5 00	10 00
30 additional hardware door stops	3 50	2 50	3 00
10 additional hardware, rubber covered chains	2 50	2 00	2 00
470 cu.ft. h.t. masonry	75	90	1 00
400 sq.ft. slate wainscoting	90	1 20	2 00
185 sq.ft. slate, pipe-chamber partition	1 00	1 40	2 00
60 sq.ft. slate shelves	1 00	1 50	2 00
620 sq.ft. slate, stall partition	1 00	1 30	2 00
23,700 sq.ft. walls—floors, etc., copper covered and windows and walls	1 25	1 30	1 30
23,000 sq.ft. walls—floors, etc., crimped G. I. and ceilings—walls	25	18	25
9,500 sq.ft. walls—floors, etc., floor rein. concrete	50	70	50
14 sq.ft. walls—floors, etc., G. I. roof vent	9 00	5 50	10 00
9,850 sq.ft. walls—floors, etc., roof	60	70	50
260 sq.ft. walls—floors, etc., partition walls	40	70	1 00
5 cu.yd. walls—floors, etc., concrete piers	10 00	17 00	20 00
5 cu.ft. walls—floors, etc., concrete copings	1 00	2 00	2 00
1,160 sq.ft. walls—floors, etc., cement wainscots	50	35	30
28 sq.ft. walls—floors, etc., c.-i. saddles	5 00	7 00	5 00
2,900 sq.ft. wood flooring, passage ways	25	30	50
12 sq.ft. plumbing fixtures, water closet bowls	55 00	45 00	60 00
12 plumbing fixtures, lavatories	45 00	36 00	50 00
Rough plumbing towers (lump sum)	7,960 00	7,000 00	10,000 00
12 c.-i. registers	5 00	10 00	10 00
2,150 steel supporting shapes	07	14	10
12 sewer and water connections, sewer connections, all sizes	255 00	160 00	160 00
12 sewer and water connections, water connections, all sizes	175 00	60 00	160 00
Extended totals	$110,650	$112,243	$113,444

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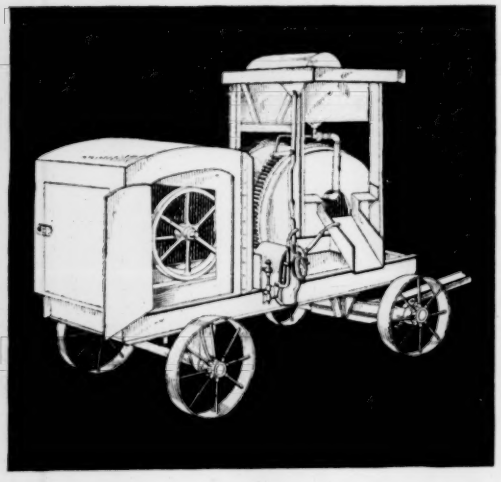

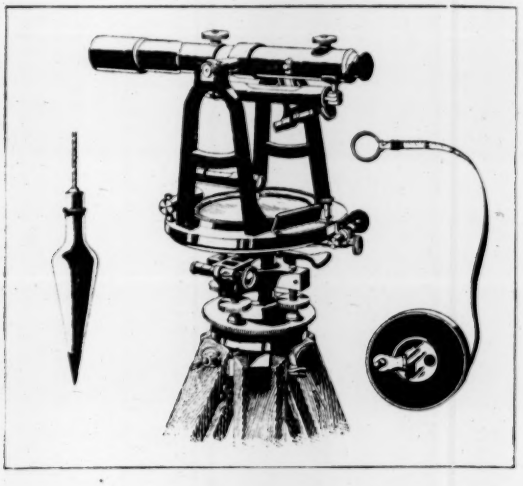

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